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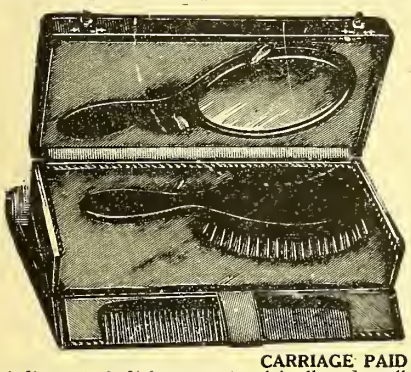
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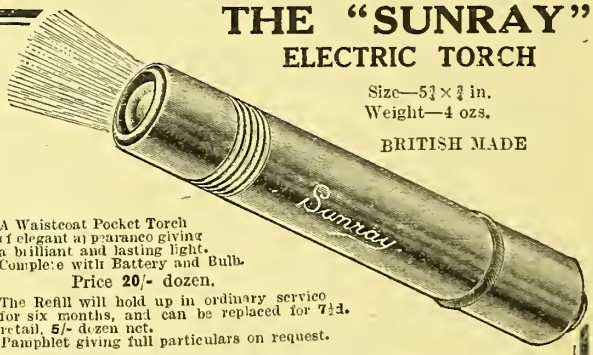


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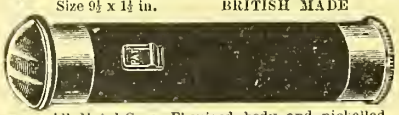
Most saleable Pocket Lamp Cases, fitted with neat round or oval Lens, assorted attractive covers, reliable patent switch.
Popular Quality, No. 307, **4/-** doz.
High Grade Quality, No. 515, **8/-** doz.
De Luxe Quality, No. 516, **12/-** doz.

Attractive Pocket Lamp Cases, fitted with large Bullseye Lens (1½ ins.), assorted Covers, reliable patent switch.
Popular Quality, No. 309, **6/-** doz.
High Grade Quality, No. 325, **12/-** doz.
De Luxe Quality, No. 423, **16/-** doz.



See Catalogue for full range.

The "ELLESMERE" TORCH
Size 9½ x 1¼ in. BRITISH MADE

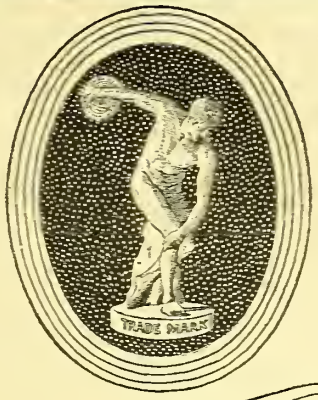


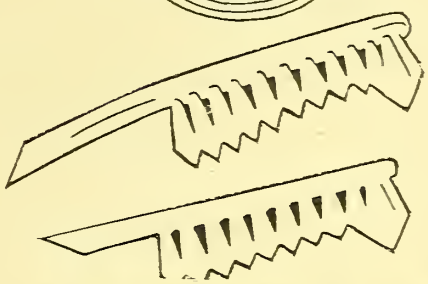
All Metal Case, Ebonised body and nickelled mounts. Handsome appearance. Substantial construction, **21/-** doz. net.
"Volex" Dry Batteries No. T116, **12/-** doz. net.
Jewel Metallic Bulbs, **2/8** doz. net.

Ward & Goldstone
PENDLETON MANCHESTER LTD.

Address all communications to HEAD OFFICE & WORKS; **PENDLETON, MANCHESTER.**
Stocks also held at Glasgow Depot;
65 BOTHWELL STREET.

Maw's Page





MERITOR

How many times have you noticed these two "inquisitive" Meritor tooth brushes in your daily newspaper. Once—twice—a dozen or more times? Think then of the many thousand other people who must have noticed them—who must have read that Meritor tooth brushes are made well, last long, and surpass all others for efficiency in their purpose. They probably read the advertisement twice—Meritor advertisements are like that—and they no doubt wonder why Meritor brushes are sold by pharmacists only.

In any case some of these readers will eventually come to you for a Meritor tooth brush. It would not enhance your commercial reputation with that customer if you were unable to supply a Meritor tooth brush.

Follow up the Meritor press advertising with your window. The display matter supplied with Meritor brushes is always of an essentially modern design with one purpose in its origin—to attract.

Here are the prices of Meritor tooth brushes:

"Meritor" Tooth Brushes

	Wholesale Price. Per dozen.	Minimum Retail Price. Each.
Standard pattern—four sizes:		
Gentlemen's, in two degrees, 4 hard and 8 medium in each dozen	16/-	2/-
Ladies', ditto	14/-	1/9
Child's, in two degrees, 6 medium and 6 soft in each dozen	10/-	1/3
Tom Thumb, soft only	7/6	1/-
Prophylactic pattern:—		
Gentlemen's, in two degrees, 4 hard and 8 medium in each dozen	18/-	2/6
Ladies', ditto	16/-	2/-

	Wholesale Price. Per dozen.	Minimum Retail Price. Each.
Prophylactic pattern:—		
Child's, in two degrees, 6 medium and 6 soft in each dozen	12/-	1/6
Official pattern. A small, stiff, unbleached bristle brush, as we supply to the Royal Dental Hospital. One size only	13/6	1/9
Official Long-Handled pattern, with lengthened handle to afford an easier and more powerful grip.		
Yellow bristle	14/-	2/-
White bristle	14/-	2/-

A new display card is supplied with orders of one dozen and upwards.



S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

TRADE MARK

Telephone: City. 7 Private Branch Exchange
Telegrams: Eleven Cent London
Cables: Eleven London
Code: A.B.C. 4th & 5th Edition

ARMOUR AND COMPANY
LIMITED LONDON

The name "GLANOID" has been registered by us for tablets of our manufacture containing glandular preparations. Prescriptions bearing this word must be dispensed with products of the Armour Laboratory.

LABORATORY PRODUCTS

Headquarters for:

Endocrines Digestive Ferments

Ligatures, Sterile and Unsterile

Specialities :—

Glycerin Ext. of Red Bone Marrow

Pituitary Liquid Beef Juice

Suprarenalin

ARMOUR AND COMPANY
LIMITED

QUEEN'S HOUSE KINGSWAY LONDON, W.C.2

'BOVAL' FLOOR GLOSS



DANCING

"Boval" Floor Gloss is the perfect Polish for Ball Room Floors.

A delightful surface is obtained simply by sprinkling it lightly on the floors.

No further work or worry; the dancers do the rest. It creates no dust and imparts a delightful fragrance to the room.

Packed in beautifully enamelled sprinkler top containers.

1/6 P.A.T.A. 13/- dozen.
2/6 „ 22/- „

Attractive Showcard supplied.

Stocked by London Houses.

JAMES WOOLLEY SONS & CO. LTD.
MANCHESTER
Warehouse, Offices & Showrooms :- Victoria Bridge.
Laboratories & Drug Mills,
Knowsley Street.



A good Cough Cure is one of the biggest assets to a Chemist's business

All and each of the above preparations are guaranteed to be reliable and proved remedies.

The Sales of

WHITE PINE COUGH SYRUP

are increasing by leaps and bounds every winter, and many of our customers run this line to the exclusion of all others.

Samples and Prices cheerfully mailed.

We pack every line suitable for winter trade :—

MALT AND OIL	MENTHOL SNUFF
COD LIVER OIL	INFLUENZA MIXTURE
COD LIVER OIL EMULSION	OIL OF EUCALYPTUS
B.P. LINIMENT	CAMPHORATED OIL, etc., etc.

and many other lines fully set out in our Illustrated Catalogue.

WHITE PINE THROAT AND CHEST TABLETS

packed ready for handing over the counter in **6d.** boxes—send for Sample Box.

Telephone: HOP 2415

ROBERT BLACKIE

Wholesale Manufacturing Chemist,

SHEN WORKS, TOWER BRIDGE ROAD, S.E.1.

Telegraphic Address: "USHENSPUNA LONDON.



IMPROVED

GINGER-WINE ESSENCE

Makes one gallon of delicious Non-Alcoholic Ginger Wine.

Per doz.	Per gross.
6/9	**78/-**

Own name on 3 dozen quantities if desired.

It has and deserves great popularity, and finds much favour at those happiest of all functions — parties at home.



Do you Dance?
—then for your own pleasure introduce

GLACIER FLOOR GLOSS

FOR BALL ROOMS.

For your own profit see that every Social and Dance Secretary knows of this—the best of all dance floor preparations. Simply sprinkle and Dance—not an atom of dust.

8 oz.		16 oz.
9/6	per dozen	**17/6**
9/-	if in gross lots	**17/-**

We offer the aid of a striking display in the form of a delightful dancing platform with realistic floor, and dancing figures which give the whole atmosphere of terpsichorean enjoyment.

AYRTON, SAUNDERS & Co. Ltd.

34 Hanover St. *'Phone - Royal 4861. Wires : "Sundries, Liverpool."* **LIVERPOOL**

MENTHOLATED BRONCHIAL LOZENGES

P., D. & Co.

A Reliable Product
at a
Reasonable Price
yielding an
Excellent Profit

"One sale makes many"

Terms and details of sales aids on request.

M. R. P.
1/- per tin of 36

PARKE, DAVIS & CO.
50-54 Beak Street,
London, W.1.

M. W. P.
8/- net per doz.

RETAILS 6d TIN

MEET TWO DEMANDS!

LICORICE & MENTHOL "SOUCHETS"

THE best Licorice and Menthol pellets on the market — irrespective of price. A superb product for those who want "the best," and at the same time remarkable for the large amount of medication so small a sum can purchase.

Tin design is in green, red, white & lacquer. 3 doz. in display outer.

6d. tins, 3/9 doz. 1/- tins, 7/6 doz.
(Gross lots of 6d. tins, 3/7½ doz.)
In Bulk 4/6 lb.

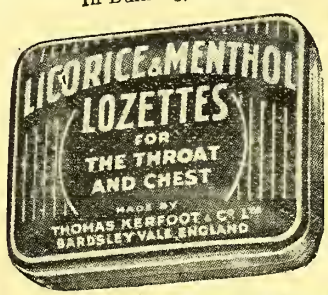


RETAILS 4½d TIN

LICORICE & MENTHOL "LOZETTES"

THE best possible Licorice and Menthol value at the popular but rather awkward price of 4½d. per tin.

3/- dozen. Gross lots, 2/11 dozen.
In Bulk 3/6 lb.



THOMAS KERFOOT & Co LTD.,
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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Season—1923

BRØDR. AARSÆTHER Manufacturers of FINEST PURE LOFOTEN Trade Mark AA COD LIVER OIL Est. 1877 AALESUND, NORWAY

COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Stocks always held in London. In 25-gallon tin-lined barrels.

SOLE AGENTS FOR U.K.: **FREUDENTHEIL, SMITH & CO.**

21 Mincing Lane, LONDON, E.C.3.

Tel. Add. : "FREUDENRUF." Codes used : A B C, 4th and 5th Edit. ; and Private. Tel. : 12513 CENTRAL.

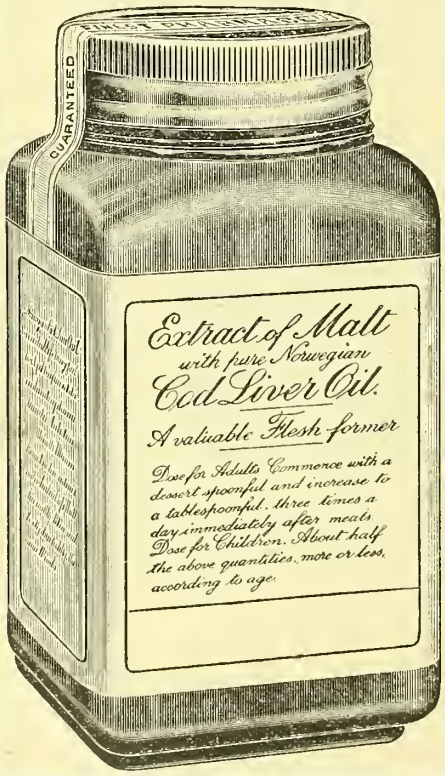
QUALITY MAKERS of

Malt Ext. and Malt & Oil

All packings.

C. Tolkien & Co. Factory & Maltings — Apollo Works, Offices & Warehouse—Commercial Mills, Blackburn.

Established 1886. BELFAST—31 Antrim Road.



THE

BRITISH DIAMALT CO.'S

Products are Reliable

MALT EXT. & C.L.O.

Prices and Samples on application.

BUY DIRECT FROM THE MAKERS—

THE BRITISH DIAMALT COMPANY

Maltsters and Malt Extract Makers.

9 HOLBORN VIADUCT, LONDON, E.C.1

Works & Laboratories : SAWBRIDGEWORTH, HERTS.

Liverpool Office : ARCADE BUILDINGS, 85 LORD STREET.

"BEST for MOTHER and BABY"



"DORSELLA"
MILK FOOD

Equals Grade "A" Milk

5 oz., 10 oz. and 16 oz. net. Decorated air-tight tins.
Retail Price .. 1/4, 2/- and 2/6.

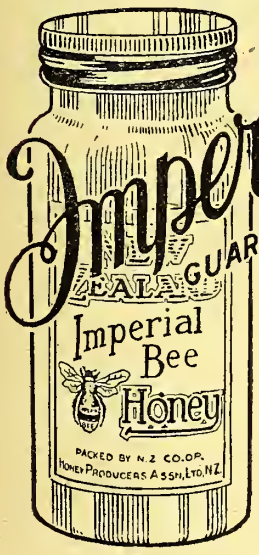
2 oz. Samples free.

Liberal trade discount. Bulk in 56-lb. tins, 2 tins in crate, rail paid, at 112/- per cwt.

Manufactured by

PRIDEAUX'S FOOD ETC. COMPANY, LIMITED,
Pioneers of the Dried Milk Industry. Eight Creameries in Dorset, Somerset and Wilts.
London Office: 16 Southwark Street, S.E.1.
Send for Trade Terms and full particulars to:
PRIDEAUX'S FOOD etc. Co. Ltd.
MOTCOMBE, DORSET.

NEW ZEALAND



Imperial Bee
GUARANTEED PURE
HONEY

Cases.

48/½'s Glass Screw-top Jars @	7/3
48/1's " " " "	12/-
48/½'s Monopots .. .. "	5/9
48/1's " .. .. "	10/6
30/1's Glass Tumblers .. "	12/-
18/1¼'s " Toby Jugs .. "	17/9
18/1's " Jam Jars .. "	16/-
18/1's " Bee Hive .. "	18/-
24/2's Tins .. .. .. "	22/-

Per Dozen
CARRIAGE PAID.

Quotations for bulk (cases of 2/60 lb. Tins) all grades, on application to:

A. J. MILLS & CO., LTD.
HONEY DEPARTMENT,
14 TOOLEY ST., LONDON, S.E.1.

MALT EXTRACT

MALT & OIL

Ask for Samples & Prices in Bulk stating Quantity

Jeffreys, Miller & Co., Ltd.,
Leyland Mills
WIGAN

Bovo-Lactin

The Key ☥ *of Life*

REGISTERED TRADE-MARK NO. 432225.

PERFECT INVALID FOODS

DOCTORS are prescribing them to their patients in steadily increasing numbers in response to a vigorous campaign in the Medical Press.

			Per doz.
Invalid Bovo-Lactin	3/9	P.A.T.A.	30/-
Bovo-Lactin Essence	3/9	,,	30/-
Bovo-Lactin Chocolate	3/6	,,	28/-

Your Profit **33⅓%** on Selling Price.

FOOD PRODUCTS LTD.

11 Queen Victoria Street - LONDON, E.C.4

Sole Distributing Agents for the United Kingdom and Ireland :—

HENRY C. QUELCH & COMPANY

4-5 LUDGATE SQUARE - - LONDON, E.C.4

Foreign Agency enquiries are invited.

22

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

IN BARRELS, WINCHESTERS AND BOTTLES.

SAMPLES and QUOTATIONS from **HERTZ & CO.,** 9 MINCING LANE, LONDON, E.C.

40 Years' Highest Reputation

Jensen's

FINEST **NORWEGIAN COD LIVER OIL**

Reduction of Prices from Sept. 1st

Important Note to Chemists without Licenses

It has been established by law that Registered Chemists may sell Wincarnis with Quinine *without* a License.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, Norwich.

New Prices to the Public :

Large Size **5/-**

Small Size **3/-**



Milkal is all Milk

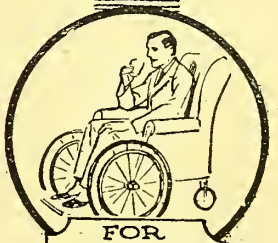
AND ONLY MILK











MILKAL is just milk—rich fresh Devonshire milk—from which the water has been extracted. When you add cold water to it you reverse the process—Milkal is milk again. It looks like milk, smells like milk, and tastes like milk; naturally, because it *is* milk. But it has this difference—it is absolutely, definitely clean.

MILKAL
THE CLEAN MILK

Milkal is described as "Dried Milk"—a term that covers a multitude of imitations: but it is the only dried milk that, mixed with water, tastes like cows' milk.

A Most Profitable Line for you to Handle.

Dried Milk meets an urgent need in every household. Milkal is the most economical and convenient method of providing clean milk at any hour of the day or night. You sell Milkal by the pound or half-pound tin, and your liberal margin of profit is indicated as follows:

	Wholesale	Retail
1-lb. size	2/9½	3/6
½-lb. size	1/5	1/9½

Distributed and Recommended by

J. LYONS & CO., LTD.

21 Cadby Hall, LONDON, W.

Produced and packed in Devon (England) by MILKAL, Ltd., London and Devonshire.

JOHN W. ROYLE, Limited

J. W. ROYLE. G. A. LORMIER FRENCH.

Importers of all Natural Mineral Waters.

Sole Agents for :

"AGREABLE (Basin de Vichy)" and "VITTEL GRANDS DUCS"

APENTA	EVIAN CACHAT	POUGUES ST. LEGER	AGREABLE BASIN DE VICHY
APOLLINARIS	GIESSHUBLER (Mattoni)	PLOMBIERES	VICHY STATE SPRINGS
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CARABANA	MALVERN ALPHA	ROYAT ST. MART	VITTEL GRANDE SOURCE
CARLSBAD	MONTMIRAIL	ST. GALMIER	VANGE
CONTREXEVILLE	PERRIER	SELTERS	WILDUNGEN
EMS KRANCHEN			

Chemists should apply for Price List showing Wholesale also Retail Price of all Waters.

ALL ORDERS EXECUTED WITHIN 24 HOURS.

Free Samples of Vichy Agreable and Birmo on application.

67 CHARLOTTE STREET, LONDON, W.1

Telephone : Museum 1036.

'Phone : 138 Pendleton

Telegrams : "Champagne Manchester."

ESTABLISHED 1855.

VIN. FERRI CITRATIS, B.P.

"Lifos" Tonic Blood Wine

English Port Style

British and Foreign Wines of all varieties

Bottles and Casks.

B. ROBINSON & Co. Ltd.

PENDLETON - MANCHESTER.

WRITE US TO-DAY AND COMPARE OUR PRICES.

Dr Hale's

VIN-SANGUIS

WINE FOR THE BLOOD

Fountain of Health

If you have a Wine License we will pay the fee.

If not, get one, we will pay.

Send for any further particulars

You agree to display "Vin Sanguis" always.

You give us an agreed initial order.

You always keep stock



PROPRIETORS OF DR. HALE'S VIN-SANGUIS

Transcontinental Agencies Ld

14, Southampton St., London, W.C.2

MADE WITH OLD DOURO PORT

The Famous Natural Aperient Water.

Hunyadi János

An extensive advertising campaign is being continued in the Medical and General Press which is stimulating the demand for this well-tried **natural** Aperient Water.

Full supplies are once more being imported, and all orders can be filled without delay.

Prices to the Trade :

24/- per doz. large bottles or **48/-** per case of 25
18/- „ „ small „ or **72/-** „ „ „ 50

Net, free delivery in London or any station in Great Britain.

Minimum Retail Prices :

2/6 per large bottle. **2/-** per small bottle.

Hunyadi János has for more than fifty years been recognised as the best of the **NATURAL** mineral waters containing sulphate of soda and sulphate of magnesia. Its laxative action is sure but gentle : it stimulates the liver and cleanses the blood.

Many of your customers who already know its value will be glad to get it again. Others will want to buy it on the recommendation of their doctors, who constantly prescribe HUNYADI in preference to ordinary aperients, therefore it pays Traders to keep a stock of this famous **NATURAL** Aperient Water.

SMALL ATTRACTIVE SHOW CARDS AND WRAPPING PAPERS FORWARDED ON APPLICATION.

Sole Wholesale Depot:

INGRAM & ROYLE, Ltd.

BANGOR WHARF,

45 BELVEDERE ROAD .... LONDON, S.E.1

19 South John Street, Liverpool. Bath Bridge, Bristol.

[3]

SUTTON'S

CALVES FEET JELLY

When the doctor orders Calves Feet Jelly he has in mind a product fresh from the makers. This standard of absolute freshness is possible only where the preparation of Calves Feet Jelly is regular and constant.



In order to meet normal demand, it has always been Sutton's practice to prepare fresh supplies every week. Hence the reputation of Sutton's Calves Feet Jelly (made from genuine feet), as an article of highest purity, full food value, great palatability and absolute freshness.

PLAIN AND IN USUAL FLAVOURS

When you see a Sutton product the finer quality is obvious. Please send for terms—

G. F. SUTTON, Sons & Co. Brandon Road, York Road, King's Cross, London, N.7.

"A good name is more than riches"

Now is the time to order

MASON'S WINE ESSENCES

AVOID IMITATIONS

NEWBALL & MASON
Nottingham.

Send for Price List and Window Display Terms.



Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

Grade A. STRENGTH 16·5°—17° Abs. Alc.

Grade B. ,, 18°—19° Abs. Alc.

James V. Oldham

19 St. Dunstan's Hill, London, E.C.3.

Telephone : Avenue 3013.



Kellogg's

Krumbled Bran is a health necessity and should be eaten daily. It naturally and permanently relieves constipation.

Prices and samples from:—

S. D. SIMOND & CO., LTD.,
10 MONUMENT ST., LONDON, E.C.3, ENGLAND.

ESTABLISHED 138 YEARS.

R. J. FULLWOOD & BLAND'S

WORLD RENOWNED

"DAIRY" Brand *"STAG" Brand*

RENNET AND ANNATTO

"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, Junket Tablets, &c.

For Samples and Quotations, apply to **31, 33 & 35 BEVENDEN ST., HOXTON, LONDON, N.1**

RENNET WORKS, ELLESMERE, SALOP. The Largest in Europe.

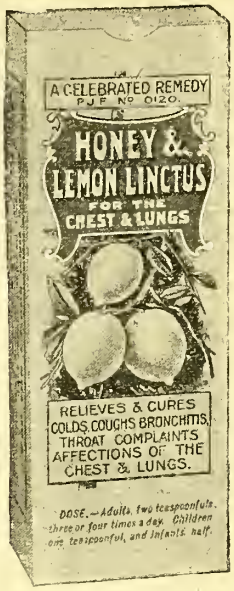
Lorimer-Marshall, Ltd., *for* WINTER LINES

COUGH MIXTURES AND SYRUPS
HONEY AND LEMON LINCTUS
A SURE SELLER

LUNG TONIC
COD LIVER OIL, COD LIVER OIL EMULSION

EXTRACT OF MALT
EXTRACT OF MALT WITH COD LIVER OIL

Quality Goods packed by Specialists
. . at Keenly Competitive Prices . .

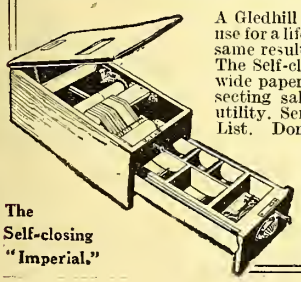


LORIMER-MARSHALL, LTD., 12, TOWER HILL, LONDON, E.C.3
Works Telephone New X 2119 Offices: Minories 1140

Dr. DE JONGH'S
LIGHT BROWN
COD LIVER OIL
IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD.
182 Gray's Inn Road - - LONDON
SOLE CONSIGNEES.

You know you ought to have a Cash Till——Why not a GLEDHILL?


The Self-closing "Imperial."

A Gledhill Till is made to stand constant use for a lifetime. You cannot expect the same results from a jerry-built article. The Self-closing "Imperial," fitted with wide paper, is specially adapted for dissecting sales. There is no limit to its utility. Send to-day for our revised Price List. Don't waste money on inferior goods when you can buy a genuine Gledhill Till for a few shillings per week. Send for details of our instalment terms and money back offer.

G. H. GLEDHILL & SON, LTD.
16, Trinity Works, HALIFAX, Eng.

VELOCIUM
An entirely new and proved
Remedy for All Breathing Affections

IN TABLET FORM
28/- per dozen TUBES
48/- per dozen BOXES
(2½% Discount)
RETAIL at **2/11** per tube and **5/-** per box.
A LARGE ADVERTISING CAMPAIGN HAS BEEN ARRANGED.

Sole Agencies are available in all parts of the world.

VELOCIUM LABORATORIES,
24 HAYMARKET, S.W.1.
'Phone: GERRARD 40.

C C

WE should like to thank the numerous friends who visited our Stand at St. Andrew's Hall for their help in making the Exhibition at Glasgow such a conspicuous success.

POTTER & MOORE'S

1749

MITCHAM LAVENDER WATER

A Perfume of distinction which has stood the test of time!

BATH SALTS

SMELLING SALTS

SACHETS

FROZEN LAVENDER WATER

TOILET SOAP



On account of its alluring and refreshing fragrance, Potter & Moore's 1749 Mitcham Lavender has delighted the senses of many generations.

Its incomparable charm is the same to-day as in 1749; see letter of appreciation on opposite page.

Prices on application

POTTER & MOORE (ESTABLISHED 1749)

THE LAVENDER DISTILLERY :: :: MITCHAM, SURREY.

Sole Proprietors **W. J. BUSH & CO., Ltd.**

ASH GROVE :: HACKNEY :: LONDON, E.8

Sole Scottish Agents for Perfumery Products:

MESSRS. MUNRO, M'LAREN & SUTHERLAND, GLASGOW

Spontaneous and Unsolicited !

POTTER & MOORE'S
1749
MITCHAM LAVENDER WATER

WE have received the following letter, absolutely unsolicited, from a gentleman of English birth, now resident in the U.S.A., concerning a bottle of Potter & Moore's 1749 Mitcham Lavender Water which his wife purchased for him during a visit to England. We cannot but hope with him that everyone using the perfume may experience similar delightful sensations.

974 *Hudson Avenue,*
Detroit, Michigan, U.S.A.

Dear Sirs,

I have been residing in the U.S.A. for nine years, and in the winter of 1921, *my wife (then in England) was preparing to join me and wrote asking what she could bring me from England.*

I replied saying that the only thing I really longed for was some Lavender Water.

She arrived in America in January 1922, *bringing with her a small bottle of your perfume.*

As I write (August, 1923) *I have before me the bottle which still contains a little of the fragrant scent, for I have used it very, very sparingly and guarded it jealously.*

I hope that everyone that uses the perfume gets as much enjoyment as I got out of this bottle.

To an exile from England nothing could have brought back the "atmosphere" of England with such realism as the scent of Lavender as preserved in your perfume.

In September a little daughter, now at school in Kent, comes to join us and I want her to bring me another bottle.

I am enclosing a cheque for.....

I also enclose a few verses from my wife which with this letter, or any part of same, you may use as you wish.

Sincerely yours,
(signed) WALTER STENNING.

"Lavender Water"

"It recalls many scenes of my childhood,
It reminds me of days that are past,
From its fragrance arises a vision
Of my mother, as I saw her last.

Its odor is 'England,' 'Old England,'
There's nothing on earth just the same,
Her cliffs, her hills and her valleys,
And all the Old Country can claim.

I have smelt the scents of the Indies,
And the sensuous 'Attar of Rose,'
I have used when abroad the concoctions
Compounded by friends and by foes.

They may be elusive or subtle,
But for me (for I'm still John Bull's daughter),
I cherish and love that 'gift from above'
Our Old English Lavender Water." MARY G. STENNING.

POTTER & MOORE, THE LAVENDER DISTILLERY, MITCHAM, SURREY

Sole Proprietors:

W. J. BUSH & CO., Ltd., ASH GROVE, HACKNEY, London, E.8

Before ordering your Christmas stocks of

EAU DE COLOGNES AND LAVENDER WATERS

we advise you to write us for particulars of our new Watch-shape flask series, in ½ oz., 1 oz., and 2 oz. sizes.

They are admitted by large numbers of our customers to be the smartest and, for their quality, the cheapest lines on the market.

THEY SELL AT SIGHT AND BRING REPEAT ORDERS

They mean good profits for you and good value for the customer.

We are now booking orders for delivery in October.

Write for prices and full particulars to :

SPURWAY ET CIE, LTD.

89 Great Eastern Street
LONDON, E.C.

CANNES-GRASSE NEW YORK
PARIS LEIPSIC

Only

1 *in* 5

adults over 40 escape Pyorrhea. That has been proved by dental statistics.

Yet that is only part of the market for Forhan's For the Gums. These are the people actually in need of Forhan's For the Gums.

But everybody, young or old, needs protection against the treacherous menace of Pyorrhea.

You offer them that protection, systematic, twice-daily protection, when you offer them Forhan's For the Gums.

But do they know that you sell this pleasant yet preventive dentifrice ?

Are you reminding them of their need, of the dangers of Pyorrhea ?

Profit from our advertising and build up your own sales by day in, day out display of Forhan's For the Gums showcards in your window.

THOS. CHRISTY & CO
4-12 Old Swan Lane,
London, E.C. 4



The 'ESSENFLOUR PRODUCTS Ltd.'

Distillers of Essential Oils and Manufacturers of Perfumery Products

MYSORE - - S. India

have been appointed as from the 1st Sept., 1923, Sole Consignees and Distributors of

MYSORE GOVT. SANDALWOOD OIL

Satisfying all pharmacopœia and possessing an excellent aroma.

Samples and prices will be readily supplied on application to our correspondent at

'PERFUME HOUSE,' 6-8 Beauchamp Street, London, E.C.1

Telephone : HOLBORN 2499. Telegrams : "EKDUM LONDON."

Established 1795.

LAUTIER FILS

Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils——————Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica [S.A.P.	Lemon
Basil	Mace
Bay	Melissa
Bergamot	Neroli big and Syn.
Bois de Rose femelle	Orange
Cajuput	Otto de Rose
Caraway	Patchouli
Cinnamon	Peppermint
Cloves	Rosemary
Copaiba	Rue
Costus	Sandalwood
Cubeb	Spike Lavender
Fennel	Tansy
Geranium	Tarragon
Honey	Thyme
Hyssop	Vetivert

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Bdg., S.E.1
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HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies
FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

Stocks in London.

PEACH
APRICOT
HONEY
MAPLE
&c.

Ask for Quotations & Samples.

A. CONNELL & CO.,
20 BEVIS MARKS, LONDON, E.C.3.
Phone : AVENUE 1945. Telegrams : "NITROZONE, LONDON."

When you see
Grey Hair
Remember Nuctone

and do not fail to recommend it to your customers.

Because you know the advantages it does not always follow that your customer does. It needs only a simple explanation on your part that Nuctone is not a hair dye but a treatment to restore the original colour of the hair through the natural medium of light and air, and you will find it easy to convince your customer of the Nuctone merits. And behind your argument you always have the Nuctone guarantee.

By recommending Nuctone to your customers you are doing them a service which they will greatly appreciate, and their satisfaction is a valuable asset for you.

Therefore remember Nuctone when you see Grey Hair!

Showcards and explanatory booklets for distribution are furnished free on request.

GUARANTEE

The Manufacturers guarantee that NUCTONE is absolutely free from any combination of lead and sulphur, and contains no ingredients that can possibly injure the hair. NUCTONE can therefore be recommended with entire confidence to your customers.

Nuctone for GREY HAIR

Retail Price **6/6** per bottle.
Price to you **52/-** per doz.

In three grades:
NUCTONE for dark and medium hair.
NUCTONE ECLAIRE for fair & auburn shades.
NUCTONE CONCENTRE for Gentlemen's hair.

Wholesale Distributors:
HENRY C. QUELCH & CO.
4-5 Ludgate Square, London, E.C.4
Manufactured by
STEWART, GOODALL & DUNLOP, LIMITED
4 Dering Street - - - - - London, W.1 41

This delightful cream meets the needs of all ladies

The Phyllis Earle Foundation Cream is a delightful greaseless cream for use before powdering and one which will preserve the softness and smoothness of the skin and delicacy of the complexion.

There is a demand for this cream amongst those who know how really beneficial a good cream can be for it is essentially a high-class product. Profits are just right for the pharmacist who will find that to stock it is well worth while on account of the repeat orders he will get through recommending such a charming cosmetic.

PHYLLIS EARLE FOUNDATION CREAM

Write for trade terms and full particulars.

PHYLLIS EARLE Ltd.
15 North Audley Street, W.1.
(Proprietors of "Kemolite.")

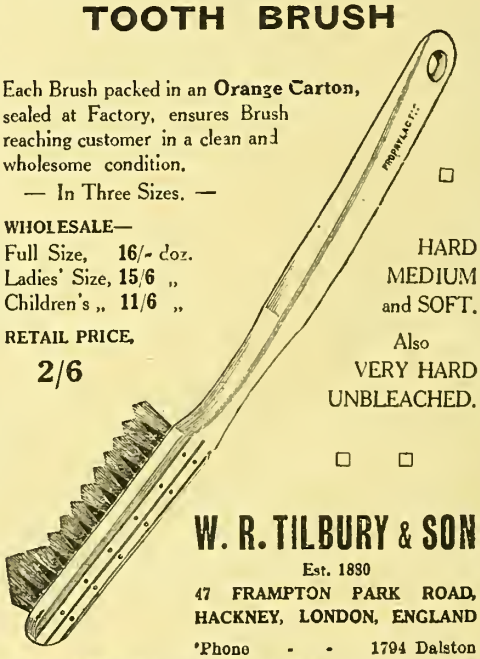
The "FORT" Brand
PROPHYLACTIC
TOOTH BRUSH

Each Brush packed in an **Orange Carton**, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition.

— In Three Sizes. —

WHOLESALE—
Full Size, **16/-** doz.
Ladies' Size, **15/6** „
Children's „ **11/6** „

RETAIL PRICE,
2/6



HARD
MEDIUM
and SOFT.

Also
VERY HARD
UNBLEACHED.

W. R. TILBURY & SON
Est. 1880
47 FRAMPTON PARK ROAD,
HACKNEY, LONDON, ENGLAND
'Phone - - 1794 Dalston

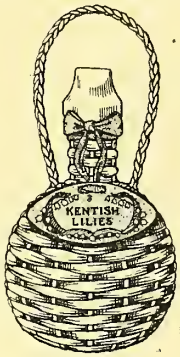
CHRISTMAS PERFUMERY



PERFUMES IN WICKERED GLOBES

Devon Violets
Kentish Lilies
Mitcham Lavender
Fragrant Mimosa

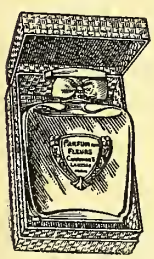
IN SIX SIZES.
From **19/-** to **354/-** doz.





PERFUMES IN FANCY CASES
From **21/-** to **66/-** doz.





Eau de Cologne

In Bottles, Flasks and Wickers.



SPECIAL ILLUSTRATED LIST NOW READY.

Telephone :
HOP 4170
(2 *lines*).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams :
"TOOGOOD,
BOROH,
LONDON."

DEARBORN (1923) LTD.

37 Gray's Inn Road,

LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A
PILENTA SOAP ... ... A complexion soap.	10/-	1/-
PROLACTUM ... ... For the lips.	10/-	1/-
PARSIDIUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... ... A dressing cream.	22/6	2/6
BORANIUM ... ... A hair tonic.	22/6	2/6
CLEMINITE ... ... For a face lotion.	22/6	2/6
COLLIANDUM ... ... For a face tint.	22/6	2/6
PERGOL ... ... A deodorant.	22/6	2/6
TEKKO PASTE ... ... Camphor cream.	22/6	2/6
STALLAX ... ... For a shampoo.	22/6	2/6
JETTALINE ... ... For clearing the skin.	31/6	3/6
PHEMINOL ... ... A depilatory.	36/-	4/-
MENNALINE ... ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX ... A face cream.	31/6	3/6
STYMOL ... ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... ... Hair-curling fluid.	22/6	2/6
BARSYDE ... ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... ... For whitening the hands.	22/6	2/6
HARAPOSA ... ... Nut oil shampoo.	22/6	2/6
COCONOIDS ... ... For figure development.	31/6	3/6

The Products of
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES For obesity.	36/-	4/-
	58/6	6/6
SOFT PALERIUM ... ... For wrinkles.	45/-	5/-
LIQUID NAIL POLISH ... Brilliant and lasting.	10/-	1/-

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd., Cape Town, etc. SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay, SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.




POWDER PUFFS

GO TO THE FIRM THAT **MAKES** THEM.

WILLIAMSON BROS.



126 Southwark Street, London, S.E.1

Phone. HOP 3419



"Newberys"

FRANCIS NEWBERY & SONS LTD

A FEW SPECIALS

HAIR BRUSHES

PURE BRISTLE, HIGH CUT, STIFF UNBLEACHED, SCREWED BACKS

11 Rows × 1¼ inches, per dozen ... 90/-
15 Rows × 1⅛ ,, ,, ... 132/-

Aluminium Drinking Cups

6d. ... ... Per dozen 3/9
1/3 ... ... ,, 10/-

COMBS, DRESSING

SPECIAL PRICES.

6-inch Gent.'s Taper, No. F. 27 ... Doz. 3/9
7¼ ,, ,, Stout Back, No. 22 ,, 4/6
6⅝ ,, ,, Roach Back, No. 5238 ,, 6/6
7 ,, ,, Roach Back, No. 21 ,, 7/6

All White Celluloid

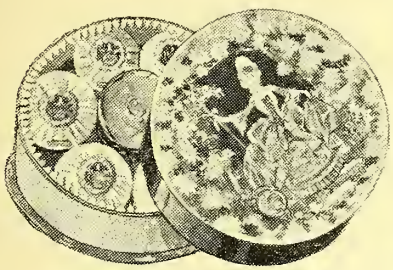
FRANCIS NEWBERY & SONS, LTD.
LONDON CARDIFF LIVERPOOL

DEVELOP YOUR XMAS GIFT TRADE — *There's Money in it!*

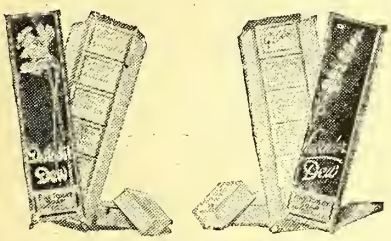


"1712" BATH TABLETS.

Varieties: Lavender, Verbena, Eau de Cologne or Assorted. Price 8/- per dozen with special bonus.



With every 6 dozen "1712" Bath Tablets ordered, one of these beautiful show or presentation boxes, value 7/6, complete with 6 tablets and 1 aluminium travelling soap box to fit, will be sent free of charge.



DAFFODIL DEW.
LAVENDER DEW.

Two rapid sellers, ideal for your Xmas window.

Price 40/- per gross tablets.

Usual Trade Discounts.

HERE are Gibbs lines that will solve many a Xmas Gift problem on sight. They have been attractively and sumptuously prepared in artistic colourings with this object in view, and to help you capture a bigger share of the profitable Gibbs trade.

Gibbs

TOILET PREPARATIONS



A FREE GIFT

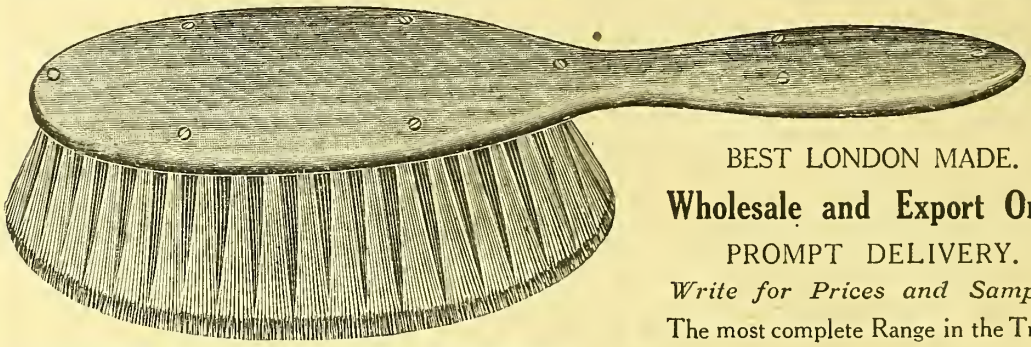
for your Customers

36 of these delightful Games Books for children will be sent free on demand with the first thousand carriage paid orders received.

We shall do our best to supply everybody, but demands are already heavy for these Xmas Gift lines. It would be advisable therefore to order straight away.

D. & W. GIBBS Ltd., DG11, City Soap Works, London, E.1.

WHALEBONE HAIR BRUSHES



BEST LONDON MADE.

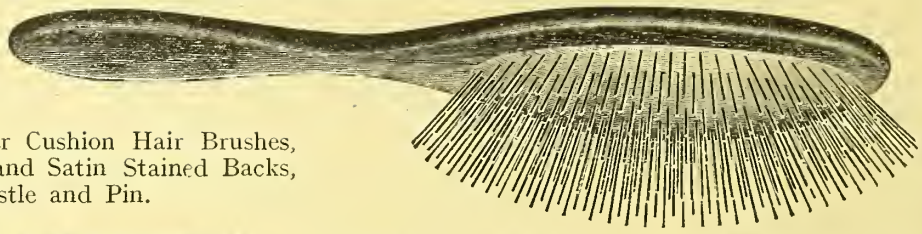
Wholesale and Export Only.

PROMPT DELIVERY.

Write for Prices and Samples.

The most complete Range in the Trade.

Also Polished Horn, Pin Bone (Extra Fine Whalebone)



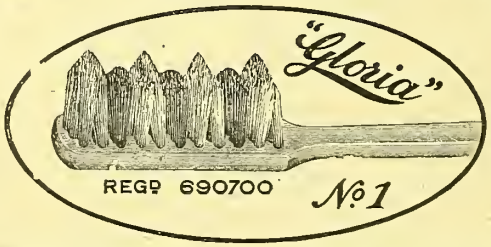
Rubber Cushion Hair Brushes,
Rose and Satin Stained Backs,
in Bristle and Pin.

JOHN FREEMAN, 10 Moor Lane, LONDON, E.C.2

Wholesale Brush Manufacturer & Importer. Telephone: London Wall 1656. **Factory: WALTHAMSTOW**

BIDWELLS

NEW DESIGN



ADVANTAGES: Used up and down on the teeth it cleans in between the n, and if pressed down hard the bristle will not crush.

Short knots in extra hard white, yellow or black bristle, long knots always white. Ventilating holes in back and hole in handle for hanging up. Sterilised and sealed in transparent Carton.

PRICE 17/– dozen ; 19/– Hard.
MINIMUM RETAIL 2/3 each ; 2/6 each.

Castle Mills, Axminster, Devon.

London Office and Showroom :
AUSTRALIA HOUSE - - STRAND W.C.2
Telephone : Central 3765.

HERE IS THE LINE you must surely have been looking for in order to **increase your profits** and meet your customers' ever-increasing demand.

"GALJADO" SCURF LOTION

for all SCALP and HAIR TROUBLES.

Small size,	*10/6* per dozen.	S.P. *1/6* per bottle.	
Standard	*,, 16/6*	*,,*	S.P. *2/6* ,,
Large	*,, 33/-*	*,,*	S.P. *4/6* ,,

"GALJADO" TOILET PREPARATIONS are universally renowned, and are obtainable of all Wholesalers or direct. Current price lists sent free on application to

THE GALJADO PERFUMERY CO., Ltd.
9 Goswell Road, LONDON, E.C.1.

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulors to—

75 Farringdon Road, E.C.1.

Beaverpuf Series

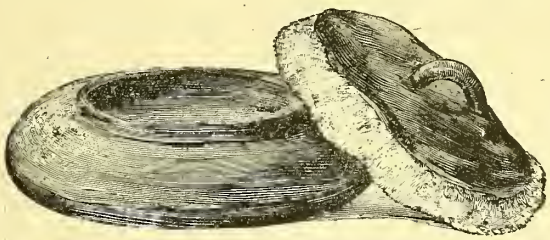
"The Ladies' Natty Friend"

The Beaverpuf Series can be obtained with either Lambswool, Nutria, Beaver or Musquash Fur Puffs according to Model.

THE LARGEST SALE OF ANY POWDER PUFF IN THE WORLD

Well over 1,000,000 now in use

Model L.P. 9
Powder only
Price **4**/=
complete



Powder refills for same **6d.** each
Finest Powder only

Obtainable from all Stores, Chemists and Hairdressers of repute throughout the World, or direct from Sole Concessionaires for Great Britain and Ireland—

BEAVERPUF, Ltd., Priest Bridge, London, S.W.14

'Phone: PUTNEY 166.

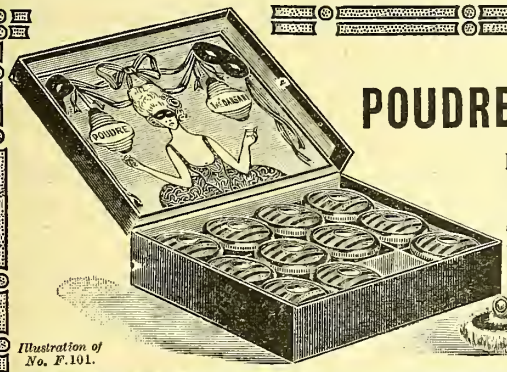


Illustration of No. F.101.

VERY NEW AND VERY CHARMING.

POUDRE COMPACTE—"THÉ DANSANT" (Regd.)

In two styles { No. F.100 Complete with Puff .. .. **7/6** doz.
„ F.101 „ „ „ and diminishing Mirror **10/6** „

"Thé Dansant" Powder, which is of the very highest grade, is in assorted shades, and is compressed by our entirely new process which gives greatly increased strength and freedom from breakage, while yielding the finest adherent powder in use. Both these lines are wonderful value and will give satisfaction to seller and consumer.

Manufactured only by
SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, London, E.C.1.
and obtainable through all Wholesale Houses.

We help you to sell ENOLIN, send you new customers, and give you a bonus too!

With every dozen tubes of Enolin you get one free tube. We are advertising this popular tooth paste widely, the demand is daily growing. Enolin sells quickly and brings good profit. Order your stocks now.

Sole Makers:
ENOLIN, Ltd., 201 King St., Hammersmith, W.6

Enolin
TOOTH PASTE

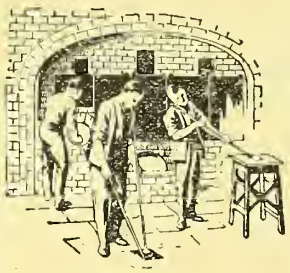
CORKS FOR CHEMISTS

Send us your enquiries and compare our prices.
WHOLESALE AND EXPORT ONLY.

C. OLLEY & SONS, LTD.

ESTABLISHED 1844.
Camperdown St. and Gt. Alie St., London, E.1
'Phone : Avenue 6630. Tel. Ad. : "Circumference, Ald., London."

METALLIC CAPSULES for all kinds of Bottles & Jars.
THE TONKIN METALLIC CAPSULE CO.
Proprietors : C. Olley & Sons, Ltd.



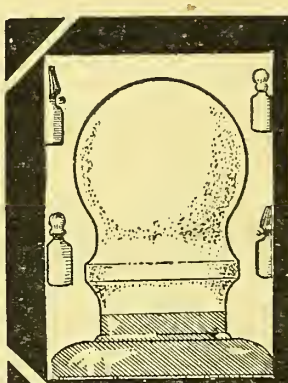
GLASS BOTTLES

FULL RANGE OF
Medicals (plain and graduated), Flat Dispensing, Panel Flats, Poisons, Limes, Kalis, Emulsions, Tobins, Vials, Tablets, &c. &c.
MANUFACTURED BY—
MONEY'S PATENTS, LTD.
111 Dalston Lane, LONDON, E. 8.
Phone: Dalston 1456.

Highest Quality in
WHITE FLINT,
ACTINIC GREEN,
PALE GREEN,
AMBER,
BLUE.
LOWEST PRICES.

Sound Corks

Sound as the Pyramids
Trial Parcel No. 412
12 gross 6 & 8 oz. Corks
Seconds, sound corks, or 10/6
Firsts, fine corks, for 13/-
Carriage Paid. Cash with order
PYRAMID TRADE MARK
Pyramid Corks - the kind that stand the test. Write to-day please
N. W. Mitchell & Sons, Ltd.,
The Cork Firm, London, E14.



Do not fail to investigate the NEW and IMPROVED
VISKAP
SELF - FIXING BOTTLE CAPS
Details from
THE VISCOSE DEVELOPMENT Co., Ltd.
BROMLEY, KENT.
PROMPT DELIVERY.

Rubber Corks

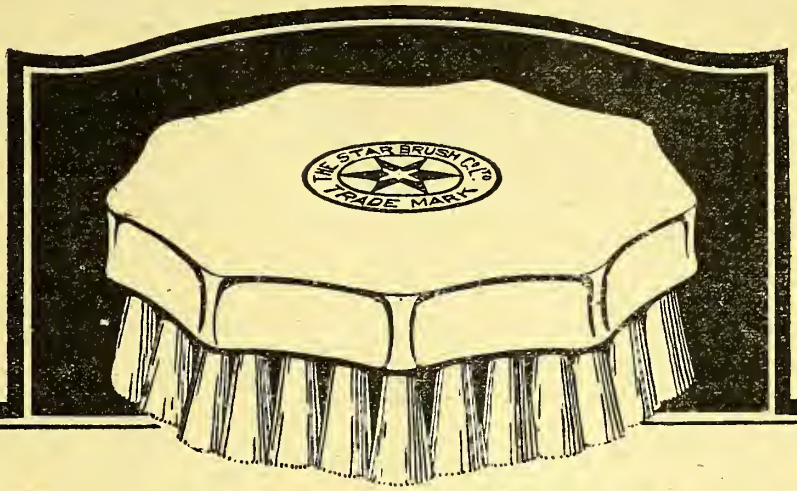
ALL SIZES & FOR ALL PURPOSES
ONE HOLE, TWO HOLE OR SOLID
THE ALTRINCHAM RUBBER COMPANY
MOSSBURN BUILDINGS, ALTRINCHAM.

FILING COVERS

For *The Chemist and Druggist* Retail Price List.
In Stout Cardboard with cords. Price 1/- each post free
The Chemist & Druggist, Publications Dept., 42 Cannon St., London, E.C.4

EBONY and SATINWOOD
HAIR BRUSHES
BRISTLE and WHALEBONE. *SAMPLES AND PRICES ON APPLICATION.*

STANDARD BRUSH CO.
121a Bunhill Row,
LONDON E.C 1.



Everyone knows Star Brushes

BEING so widely advertised, Star Brushes are universally known and their prestige can be a valuable asset to your business.

Daily they are proving their worth in more than a million homes; it is their wearing quality and true economy which make them so popular.

You make a sound investment when you decide to stock and display the Nail Brush with the Star on the back.

STAR
NAIL BRUSHES

Write at once for the splendid sample case, containing 81 brushes of the best selling lines, which we are supplying for £1, carriage paid.

THE STAR BRUSH CO., LTD.
Eden Grove, Holloway, LONDON, N.7.

THE STAR BRUSH COMPANY LIMITED TRADE MARK

26.

SHERLEY'S DOG MEDICINES INSECT POWDER SHAMPOO, and LACTOL

(P.A.T.A.)



These preparations command a ready sale, and are by far the largest advertised of any on the market. They are protected at prices that leave an excellent margin of profit for the retailer, and the terms on which they are supplied preclude any possibility of loss.
We have an excellent range of literature and show cards, and do all in our power to assist chemists by referring mail customers to them.

Write for Price List and Terms.

A. F. SHERLEY & CO., LTD.
18 MARSHALSEA ROAD, LONDON, S.E.1
Tel. No.: Hop 1897. Telegrams: "Sherleydom, London."

WANTED—Chemists to sell
'Ready Rat Relief' & 'Outem'
FOR RAT DESTRUCTION
'Solventen" for Cockroach destruction
Good Profits. Quick Returns.
B. L. & N. Phillips, Ltd., 124 Southwark St., London, S.E.1

ANNOUNCEMENT.

A Huge New MARKET
— and generous profits.

A huge new market for Chemists and Drug Stores is opened up by the Advertising of **"Germicidal Dog Soap"** in 9d. and 1/6 size tins.

This Soap is the first successful attempt to cater for the hundreds of thousands of Dog Lovers in Great Britain with a Soap that not only cleanses, but renders pets free from germs and parasites.

The results of the extensive advertising have been remarkable. Repeat orders arrive by every post, and the warmest tributes are being paid to the wonderful Soap by both users and the Trade.

Powerful publicity is now appearing in the National Press, and local support is given to Special Agents by Advertisements in the local newspapers. A gross profit of over 40% is offered where display is made.

Write at once for details of Window Display terms, etc., to:—

THE HYGIENIC RESEARCH CO. Ltd.
100-106 Moorgate Station Chambers, London, E.C.2.

(Supplies stocked by your usual wholesaler.)

GERMICIDAL DOG Product of the HYGIENIC RESEARCH CO. Ltd. **SOAP** 1

IN TEN MINUTES

Mr. John A. Watson, Chemist, Accrington, writes: "10th September, 1923. A customer told me last week that he found

Sixteen Dead Rats

from a 7½d. tin and all in about ten minutes after laying the poison down."

IN HALF AN HOUR

Mr. Thomas Swain, Station Road, Llanfairfechan, writes: "September 15th, 1923. Please send one tin of 'Rodine.' Some time ago I put a tin of 'Rodine' down and the rats had eaten it all in half an hour, and the next morning I picked up

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Rats are Simply Lured to Death by the Piper o' Perth.

"Rodine" is the rat poison that gives best results to both seller and user. Be sure you get it direct from the maker.

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VACUUM FLASKS

GUARANTEED DOUBLE TESTED.

Delivery from Stock. Free Cases. Carriage Paid. Samples and Prices sent per return of post.

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2/9, 6/-, 14/-, and 21/- per tin.
Invoiced to the Trade at
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Carriage paid on orders of 40/- net. Postage charged on small lots.

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The Veterinary Chemical Works.
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Isn't that man typical of many of your customers?

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Hot Water Bottle COVERS

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Washable Pleuchette Covers. Soft, silky finish.

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8×12	6/8	10/-	5/3	7/-
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Stock the Ronoleke. £5 orders and over less 5% plus a further 5% for prompt cash. From all Wholesalers.

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It provides a warm and pleasant atmosphere for your customers and better facilities for your assistants to make sales.

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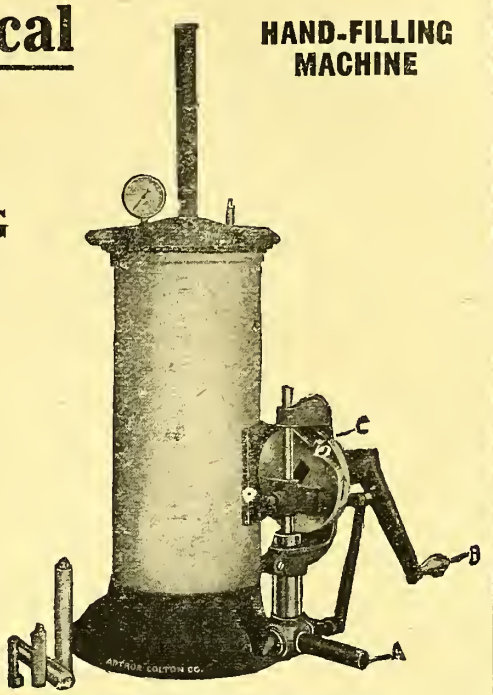
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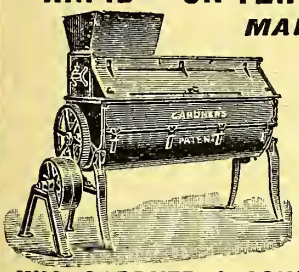
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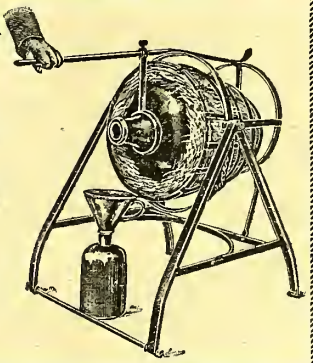
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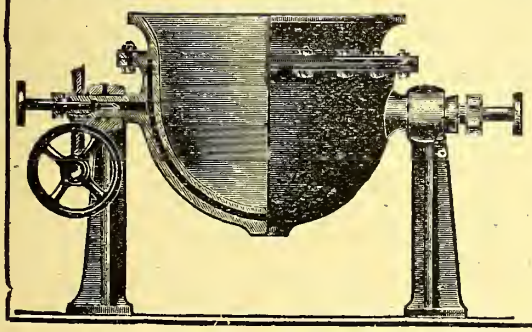


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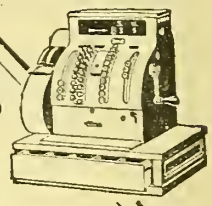
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A necessity for Retail Shops—Gathers a crowd round the windows. It sells goods. Balances on the tip of an ordinary electric bulb; and uses waste heat—no mechanism.

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Cheapest possible moving sign—no running costs—large advertisers should write for quotations for own design in quantities.

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SNOWFIRE TABLET
SNOWFIRE CREAM
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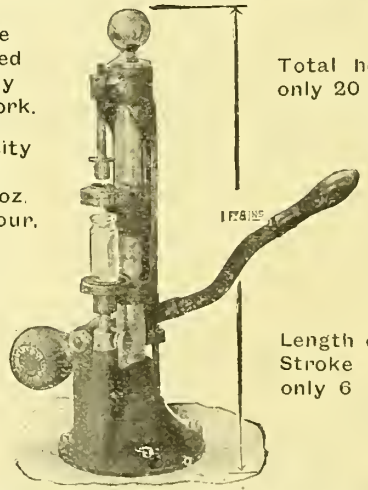
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Can be adapted for any size cork.

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Will leave cork projecting or drive it flush as desired.

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1924

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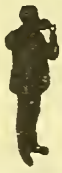
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'KEPLER'

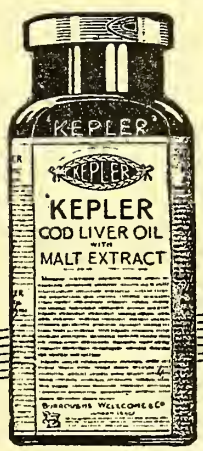
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ESTAB 1859

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Ideas

We invite contributions to this section.

Printing costs can be reduced by using, where suitable, rubber stamps instead of printed labels.—*C. C.* (26/9).

* * * *

Shop-rounds containing fixed oils or glycerin preparations may, when not fitted with special tops, be stood in inverted tin lids: this will dispose of any "drip" and facilitate cleaning.

* * * *

Chemists who order methylated spirit and turpentine in casks should ask that old casks be used: new ones absorb a considerable percentage of such liquids. Turpentine should not be stored long in tin receptacles, lest a red colour should develop.

* * * *

The work of sorting out National Health Insurance prescriptions, and arranging them in "doctor order," is a burdensome job if left until the end of the month. Classifying should be done each day, and the scripts stored in separate cardboard boxes labelled with the names of the respective doctors. Odd prescriptions may be put together in a box marked "Miscellaneous."—*B. G.* (16/10).

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Wireless Licences

The Committee of the Wireless Retailers' Association has issued a statement regarding the effects of the conditions imposed by the new licensing system from the retailer's point of view. It is pointed out that the protection which has been given to British manufacturers is not protection in the accepted sense of the word, but the absolute prohibition of the use by the public of manufactures of overseas origin. However good the articles may be, the public may not purchase them, even though prepared to pay an import duty. Manufacturers, it is considered, have profited by the monopoly conditions created by the first agreement between the Postmaster-General and the British Broadcasting Company to impose oppressive terms on retailers, the complaint from firms, both large and small, being that out of the ample profits made by manufacturers the small percentage allowed to retailers is insufficient. That the new agreement excluding imports is to be similarly utilised may be gathered from the fact that, following close on the statement of the Postmaster-General, comes the information that manufacturers purpose not only to reaffirm their present inadequate terms to retailers, but in some cases actually to reduce them. It is officially stated that 227,000 interim and constructors' licences have been applied for, and, in addition, another 7,000 broadcast licences have been taken out. To these figures may be added the number of experimental licences issued up to September 30 58,000, and "B.B.C." licences, 122,000. The time-limit for the sale of interim licences, which was to have been expired on October 15, has been extended to October 31.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

A verdict of "Suicide while of unsound mind" was recorded by the West London coroner, on October 16, at the close of an inquiry into the death of Mr. Alfred James Grant, M.R.C.S., L.R.C.P., Glyn Mansions, W., who, his widow stated, had not practised for fifteen years on account of illness. Medical evidence was given to the effect that the deceased must have suffered much pain, and that death was due to an overdose of morphine.

In the course of an inquest held in the City of London, on October 15, on the body of George Summers, bootmaker, City Road, E.C., a medical witness stated that Summers, before expiring, said that he bought a shilling's worth of lysol, knowing it was a powerful poison. Witness urged that lysol should be placed in Schedule 2 of the Poisons and Pharmacy Act. A verdict of "Suicide while of unsound mind" was returned, and a rider was added to the effect that lysol should be scheduled.

Contracts

The following tenders have been accepted by the bodies named:—

Great Yarmouth Guardians.—Boots, Ltd., drugs and appliances.

Hereford City Council.—Ralph & Clarke, chemists, drugs, etc.

Pembroke Guardians.—Boots, Ltd., chemists, drugs.

South Stoneham Guardians.—W. Bates & Co., Ltd., Southampton, medical requisites.

Stockport Guardians.—J. C. Arnfield & Sons, Ltd., manufacturing chemists, drugs.

Birmingham

Mr. F. Blackham, chemist and druggist, has removed his business from 108 Newtown Row to 42 Aston Street.

The local section of the Institute of Chemists held a smoking concert at the White Horse Hotel on October 15, when several associates received their certificates.

The Students' Association of Birmingham School of Pharmacy held their annual dinner and smoking coucert at the Imperial Hotel on October 10. Mr. H. H. Marshall presided.

In the correspondence column of the "Birmingham Mail," October 12, is a letter, signed "Employer," pointing out the discrepancy between the remuneration paid to doctors and that received by chemists for Insurance work. The writer remarks :—

". . . according to the Ministry of Health's memorandum, a panel of 2,000 persons entitles a medical man to an income of £900 per annum for only eight visits and sixteen surgery attendances per day. . . . At Smethwick during last quarter 30,740 prescriptions had been dispensed by panel chemists for the total remuneration of £589 16s. 10d., slightly over 4½d. each prescription, a figure that includes wages for assistance in clerical work, establishment expenses, and professional knowledge. . . . At Smethwick six chemists had their dispensing tested and all were found correct. Does anyone test the panel doctors' diagnoses? If not, why not? Surely the public are equally entitled to their money's worth from the doctor as from the chemist."

Liverpool

Two inspectors from the Education Office are calling on pharmacists and other tradesmen to see that boys of 14 years of age in their employ comply with the new regulations. In one pharmacy the whole staff, aged respectivcly 52 and 18, paraded at once, and the inspectors left in haste.

Mr. William Brinson, for thirty years traveller for Evans Sons Lescher & Webb, Ltd., in the Nottingham, Bradford, Sheffield and Staffordshire districts, has been appointed sales director of the firm, and now relinquishes his journeys in order to assist his fellow-directors in the administrative work in the house. Mr. J. Hampson, who has been assisting Mr. Brinson for the past two years, will succeed Mr. Brinson on the Midland ground, and Mr. E. B. Davies (of the office staff) in Staffordshire.

A *C. & D.* correspondent writes : "I have had the pleasure of reading the presidential lecture by Mr. W. H. Saunders to the Philomathic Society, 'The Land of the Rising Sun,' which is passing through the press. Besides numerous references to modern works, it includes many observations made by the lecturer during his round-the-world tour, and comments on the crisis brought about by the earthquake—e.g., "In my opinion, Japan will recover as surely, swiftly and completely, in fact more completely, than San Francisco. To say otherwise is to deny the modern miracle which the power of Japan presents. The energy and fibre of the Japanese race have made, within comparatively a very few years, an isolated Oriental kingdom into a powerful nation, respected throughout the world, and treated as an equal by the dominant nations of the West. Its endurance has been proved over and over again in peace and war. The building of modern Japan has been no accident. Upon an area seven-eights of which is infertile, it has raised great wealth and a good population. Swift as their progress has been, they have fought for every inch of it. What Japan has done Japan can do again. Its rise has been the wonder of the century, and without doubt its recovery will be quite as wonderful." The lecturer recognised the need of outlet for an overflowing population, nearly double that of Great Britain and Ireland, on about the same area, and finding China, India, California and Australia closed or hostile, he suggests that the Pacific Isles offer homes for a nation of sea fishermen.

Manchester

It must be nearly twenty years since there was a pharmacy ball in Manchester. However, the spirit of youth is not to be denied, and there is a proposal on foot to hold a dance (preceded by a whist-drive and supper) at the Midland Hotel in January.

Mr. F. W. Bates, Brooks's Bar, has lately had a really good "pulling" window-show of all the well-known makes of tooth paste. Various showcards were displayed with wording to this effect : "Is your favourite tooth paste here? If not, we will get it for you."

The "presentation" dinner held at the Midland Hotel on October 10 was voted the best function ever organised by the Manchester Pharmaceutical Association. The twenty-five volumes presented to Mr. William Kirkby, M.Sc., consisted of : "The Golden Bough," by Sir J. E. Fraser; "Folk Lore in the Old Testament," by Sir J. E. Fraser; and the "Diary" of Samuel Pepys.

The issue of a Ministry of Health pamphlet containing some statistics already common property (see p. 555) was noticed by the "Daily Dispatch" of October 15 under the headings, "Making up the Wrong Bottle" and "Chemists' Errors that May Kill." We learn that Mr. G. A. Mallinson, secretary of the Retail Pharmacists' Union, has sent a letter to the editor of that paper pointing out that nothing in the Ministry's report justifies these headlines, and adding that "it would be the duty of the Ministry to express themselves very forcibly in their report if they were of opinion that the figures indicated any danger to the public." We have not been able to ascertain whether the letter was published.

Sheffield

Several suburban drug-stores are likely to pass into the hands of pharmacists in the near future.

A large outside lamp at Mr. Leslie Piper's shop in Highfields was blown down during the recent storm.

Dr. Ripper, who relinquished the vice-chancellorship some years ago, is retiring from the technical staff of Sheffield University.

Motoring chemists will be pleased to know that John Clark & Co., wholesale druggists, West Street, are supplying all grades of motor oil.

The number of local applications for wireless licences between October 4 and 13 was 755. Of this total, 419 were for the interim, 286 for the constructor's, and 50 for the "B.B.C." type. Mr. J. Gilbert Jackson, jun., M.Sc., has been elected chairmau of the education committee of the Sheffield Wireless Society.

Miscellaneous

DRUG TRAFFIC CASES.—At Westminster Police Court, Londou, on October 13, Harry Healey, costermonger, was sentenced to three months' hard labour for being in unauthorised possession of heroin.—At Thames Police Court, on October 16, Britannia Williams, described as a hawker, was ordered nine months' hard labour for offering to supply cocaine.

SHOPPING CARNIVAL.—Among the prize-winners for wiudow-displays at the Bolton shopping festival were :—*Town*, (1) Waller & Riley, Ltd., chemists, Bradshawgate; (2) J. Hart & Sons, chemists, Newport Street. *Districts*, (1) Mr. H. N. Savage, chemist and druggist, Halliwell Road (and Moseley Food cup); (2) Mr. S. Hayward, chemist and druggist, 36 Queensgate.

VETERINARY RESEARCH INSTITUTE.—A grant of £25,000 has been made by the Development Commission on the recommendation of the Advisory Committee on Research in Animal Diseases towards the cost of erecting a research institute in connection with the Royal Veterinary College, Camden Town, London, N.W. Sir John McFadyean, Principal of the Royal Veterinary College, will be the director of the institute.

SURGICAL INSTRUMENT MANUFACTURERS' ASSOCIATION.—The annual dinner of the Surgical Instrument Manufacturers' Association was held in London on October 12. Mr. E. W. Mayer presided, and among those present were Mr. Godfrey Cheesman (secretary of the National Union of Manufacturers), Dr. H. T. Maw, and Mr. H. E. Curtis. The chairman said that it was the duty of the Government to assist the surgical-instrument trade, and that unless something was done to help their industry it would cease to exist.

THE SPAHLINGER TREATMENT.—A statement for publication was made in London, on October 16, with reference to the Spahlinger treatmeut for tuberculosis. It is proposed to raise money by voluntary subscriptions to enable Dr. Spahlinger to continue his investigations. Sir Stanley Birkin, Nottingham, has contributed £20,000, but it appears that public aid will have to be forthcoming if the research work is not to be interrupted. The laboratories are at Carouge, near Geneva. Dr. Spahlinger has isolated twenty-two different poisons from

tuberculosis from horses. With 100 horses he thinks he would be able to treat 10,000 cases. Until the serum is prepared in sufficient quantities (and it will, in any case, take a long time), it will be useless for people to apply for treatment at his establishment in Switzerland.

IN THE COURTS.—At Loughborough Petty Sessions, on October 10, Charles Schweitzer, Aldgate Avenue, London, was summoned for selling a patent medicine unstamped and without having a licence. Mr. E. R. Booth (London), who prosecuted, said he had just been informed by the Excise officer laying the information that the defendant was not the man who was selling the medicine. That man gave the name and address of the defendant. The summonses were dismissed.—At Otley, on October 12, John W. Mainprize, chemist and druggist, was committed for trial on a charge of causing grievous bodily harm to Ernest B. Weegmann, pork butcher (*C. & D.*, October 13, p. 500).—At Lambeth Police Court, London, on October 16, John E. Ryder, packer, was remanded on a charge of stealing Gillette razor blades and other goods, value £2 4s., the property of his employers, P. H. Galloway, Ltd., manufacturing chemists, Walworth Road, S.E.

BRITISH BRUSH-MAKING INDUSTRY.—A deputation representing employers and workers in the British brush-making industry visited the Board of Trade on October 18 to point out the condition to which the industry has been reduced by foreign competition, and unanimously demanded the imposition of a tariff on imported goods. Among the employers' representatives was Mr. Lidderdale (G. B. Kent & Sons, Ltd., London). It was stated that there were from 750 to 850 factories engaged in the work. Returns showed a decrease in the numbers employed of over 31 per cent. as compared with 1920. Nearly 50 per cent. of the imports came from Germany, and the bulk of the remainder from Japan and Belgium. Over 80 per cent. of the Japanese imports were toothbrushes. In the discussion which followed it was generally agreed among members of the deputation that the Safeguarding of Industries Act was not competent to give the relief demanded; what the industry required was to be included under the protection which was given at present only to luxury trades.

CHEMISTS' DENTAL SOCIETY.—A general meeting of the Chemists' Dental Society was held at the University of London (Imperial Institute), South Kensington, on October 11. The President (Mr. F. R. Sutcliffe) occupied the chair, and among others present were Messrs. F. C. Ashford (Vice-President), J. J. Laws (treasurer), J. L. Smith (librarian), J. W. Roberts (secretary), Templar Malins, S. V. Brook, S. Davis, H. J. Morgan, E. Mowat, R. Grantham, H. T. Maundrell, B. L. Workman, and W. E. Barker. A report of the present position of the public dental service and of the co-operative societies' dental services was given by the joint committee representative (Mr. J. W. Roberts). A resolution was passed emphasising the necessity of a free choice of dentist by insured persons, and deploring the attempt to divert patients from their own dentists or the exploitation of Insurance dental benefits by clinics or semi-charitable concerns. A discussion on the cocaine substitutes investigation was initiated by Mr. Templar Malins, and the secretary was instructed to forward a resolution to the committee calling attention to an extract from the B.P. Codex, 1923, stating that the efficiency of cocaine substitutes as local anæsthetics is generally less, and that they are much more irritant to the tissues than the alkaloid. Surprise was also expressed that, although millions of ounces of cocaine solution are used annually by dentists, the pharmacist is superseded by a Home Office licence, the Pharmacy Act is ignored, and this legitimate trade is lost. It was decided, however, that this was a matter for the Pharmaceutical Society or the Retail Pharmacists' Union.

THE Board of Trade figures for wholesale prices for the past month show an increase of 2.1 per cent.

OFFICIAL figures indicate a rise in the cost of living, during September, from 73 per cent. to 75 per cent. above the cost in July 1914.

Irish News

Pharmaceutical Society of Ireland

The following are the results of the recent examinations :—

PRELIMINARY EXAMINATION.—Mary Josephine Lynch, Blackrock; Herbert A. N. MacKinty, Larne; Rose Anne Reilly, Newtownbutler; Kathleen Mary Magner, Cork; Michael Bradley, Callan; (Joseph Anthony Browne, Athlone = William Joseph Magee, Dublin); Sarah Mabel Ritchie, Templepatrick, co. Antrim; Agnes O'Connor, Lismore; (Belinda Cooney, Drumshanbo = Michael Desmond McHale, Sligo); James Anthony Doyle, Sligo; Patrick James Purcell, Dublin; William G. W. Fox, Ballybay; James Montgomery Ovens, Enniskillen; James Clune, Limerick; Laurence Arthur Kerrigan, Castletown Geoghegan; Kathleen Murphy, Carrick-on-Shannon. Fifteen candidates were rejected.

PHARMACEUTICAL LICENCE EXAMINATION.—The following passed: Mary Stanislaus Mooney, Rathangan; Charles McKeown, Dublin; (David Harnett, Newcastle West = Ellen Buckley Young, Tullow); Emma Frances Greene, Moate; Valentine Guy Bowen, Dublin; John Joseph Joyce, Urlingford. Eleven candidates were rejected.

The above names are in order of merit.

REGISTERED DRUGGIST EXAMINATION (names are in alphabetical order).—Patrick Brady, Tullamore; John Connolly, Cliffoney; George Percy Hely, Cappoquin; George Parkinson, Edinburgh; Gerald Ryan, Dublin. Two candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION. — Edwina Elizabeth Cox, Ballynacargy, passed. Two candidates were rejected.

Mr. Culbert Favours Northern Society

Mr. J. C. Culbert, in reply to inquiries from pharmacists in the North of Ireland, has written a long letter, in which he outlines the present position and comments on the manner in which it is to be met. He gives the main facts, the most important being that the Pharmaceutical Society of Ireland no longer exists as such. He strongly advocates the acceptance of the invitation of the Government to form a Northern pharmaceutical society, and points to the prospects of obtaining legislation for the protection of the chemists' business and other desiderata, such as making the cost of prosecutions payable, not by the Society, but by the Government. Other developments, he states, will suggest themselves gradually. "There will be difficulties—adjustments will be necessary—we must not think only of our own little businesses and our own little day; but if we do realise the possibilities that lie at our hand now, both for ourselves and for those who come after us, surely all petty feeling and personal jealousies will be dropped while we join together in the construction of a pharmacy administration which will lead the world. If, however, we are not equal to the task, or hesitate to undertake it, what will be the result? It would be quite in order for the Government to nominate a Board or Committee to advise them and to carry on the work of a Society as a department of the Home Office. It is obvious they do not wish to do so if it can be avoided, seeing they have asked us for suggestions, but if we do not do our part, what else can they do?"

Brevities

Mr. Commissioner Murphy has reinstated Mr. Burns, compounder of the Dublin Union, whose suspension was reported to the Government. (*C. & D.*, October 13, p. 500).

Mr. Peter Tohall, Ph.C., was examined in a case at Dungannon Quarter Sessions recently in which Judge Lineham gave his father, Henry Tohall, Moy, a decree for £39 8s. 1d. for goods against James Harvey, Seyloran.

At a recent meeting of the Cork Public Health Committee a letter was read from the Local Government Department, informing the Committee that the Civic Guards can now assist local authorities in the administra-

tion of the Food and Drugs Act, by taking samples for analysis, etc. The executive sanitary officer told the Committee that out of the last 56 prosecutions in Cork under the Food and Drugs Act, 37 cases had been dismissed in Court.

At the Lismore (Waterford) Quarter Sessions, Mr. Lowe, R.D., Lismore, sued Sir Richard Musgrave, Bart., for £6 10s. 11d., balance of account. Sir Richard said he objected to some of the items in the account, which he did not authorise anyone to get. He also sent a letter to the plaintiff directing him not to give any goods to anyone without an order signed by himself or Lady Musgrave. The judge got the parties to compromise the matter, and awarded three pounds in settlement of the claim.

Belfast

Mr. W. J. Rankin, jun., L.P.S.I., who is President of the Central Presbyterian Association Camera Club, Belfast, this year, gave an "at home" recently to the members.

Mr. W. J. Marshall, High Street, has been nominated as next year's President of the Belfast and District Chamber of Trade, in succession to Mr. J. Carroll Culbert, M.P.S.I.

The Minister of Home Affairs for Northern Ireland has agreed to receive, on October 19, the deputation appointed by the Amalgamated Pharmacists' Committee in Belfast to interview him regarding the future of the Pharmaceutical Society.

At a meeting of the Chamber of Trade, Mr. W. J. Hardy, Ph.C., spoke of the injurious effect on business in Castle Place and High Street of the prolonged tramway reconstruction work. A deputation was ordered to wait on the committee. Mr. I. W. Nicholl, Ph.C., High Street, was a member of a deputation that waited on the Improvement Committee to request that High Street be wood-paved.

At the police court, on October 12, Alexander McMurray, R.D., 132 and 134 Grosvenor Road, was summoned for having sold methylated spirits in a quantity not exceeding one gallon to one to Henry McNamara, alias Elbourgh, a person unknown to him, and for having failed to make the required entries in a book regarding the sale. McNamara was not present, and an adjournment was granted.

A meeting of the Ulster Branch of the Chemists' Dental Society of Great Britain (formerly the Dental Society of Ireland) was held on October 10 in the rooms of the Chemists' and Druggists' Society of Ireland, the President (Mr. F. T. Smith, J.P.) in the chair. Mr. Robert Kells, R.D., 90 Albertbridge Road, Belfast, was appointed to succeed Mr. J. D. Carse as secretary. A discussion took place on the winter's work, and it was announced that the Queen's University of Belfast, as recommended by the Dental Board of the United Kingdom, had arranged a course of post registration lectures and demonstrations for those whose names have been entered in the Dentists' Register, under the provisions of the Dental Act, 1921. These lectures will be held in Queen's University, Belfast, commencing on October 25. The course will consist of twenty lectures, and the class will meet on Thursday evenings of each week at 8 p.m. during the winter term. Each applicant must pay the fee of £1 1s.

A CONVERT.—". . . a General Officer who had long served in India . . . had a settled prejudice against Medicine.—The General was recommended to go to Malvern Wells where He was accustomed to take morning rides; in one of which He noticed a respectable-looking man who had remarkably a look of high health. The General told the Physician that this induced Him to request to know by what mode of life He preserved His constitution in so good a state. The other freely replied 'That it was his habit to take a *Calomel Pill every other day*, which He had so done for thirty years . . .' From this time the General ceased to have any prejudice against medicine."—"The Farington Diary," October 25, 1811, in "The Morning Post."

Scottish News

Brevities

Mr. R. Bisset, chemist and druggist, has commenced business at 39 High Street, Lochmaben.

Mr. A. H. Tait, chemist and druggist, has commenced business at 43 New Street, Dalry, Ayrshire.

Blackaller & Pleasance, 8 Laurence Pountney Hill, London, E.C.4, the British Empire distributors of the eau de Cologne of Johann Maria Farina gegenüber dem Julichs Platz, have appointed Mr. W. Anderson, 70 Marlborough Avenue, Glasgow, as their sole representative in Scotland.

Edinburgh

St. Cuthbert's Co-operative Association, Ltd., have opened a drug department in their establishment in Chessor Avenue.

The Edinburgh Chemists' Golf Club held a competition over Cammo course, on October 3, with the following results:—(1) Mr. W. J. Rosie; (2) Mr. J. P. Gibb; (3) Mr. C. Elder. The special handicap prize was won by Mr. A. J. Clark. The "hole and hole" competition has been won by Mr. D. S. Philp, who thus secures the T. & H. Smith trophy. The last competition of the session will be held over Duddingston course on October 31, immediately after which the annual meeting of the Club will be held in Duddingston Club House. At a committee meeting held on October 8 it was agreed to arrange a whist-drive for November 28 at Vincent House at 6.15 p.m. Tickets (4s. 6d. each) can be obtained from members of the committee.

Fife

An epidemic of ringworm has broken out among the schoolchildren in Kirkcaldy.

Mr. W. Reid, chemist and druggist, New Mills, Dunfermline, has purchased the pharmacy of Caw & Robertson, chemists, 9 Bonnygate, Cupar. Mr. W. G. Robertson, Ph.C., who has been sole partner for some years, is retiring.

Glasgow

Miss Agnes M. A. Millar, chemist and druggist, has taken over the business of Mr. D. A. Hutchison, chemist and druggist, 95 Holmlea Road, Cathcart.

The final of the single-handed competition for the Greig trophy and badge of the bowling section of the Glasgow Pharmacy Club was played on Queen's Park green on October 5, when Mr. W. Smith emerged the winner, Mr. D. Black being the runner-up.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, October 24

Liverpool Chemists' Association and Liverpool Branch of the Pharmaceutical Society, Adelphi Hotel. Dance. 8 p.m. to 2 a.m. Supper at 10.30 p.m. Tickets (single 10s. 6d., double 17s. 6d.) from the secretary or the Ladies' or Entertainments Committee. Early application essential.

Reigate and Redhill Pharmacists' Association and Pharmaceutical Society Branch, White Hart Hotel, Reigate. Meeting at 6 p.m., addressed by Sir William Glyn-Jones; dinner at 7 p.m.

South-West London Chemists' Association, Town Hall, Wandsworth, at 7 p.m. Dance. Tickets (single 3s. 6d., double 6s. 6d., including refreshments) from Miss A. T. Borrowman, 17 The Pavement, Clapham, S.W.4.

Portsmouth Pharmacists' Association, Royal Pier Hotel, at 7.15 for 7.30 p.m. Annual dinner. Tickets (before October 18) (10s. 6d. each) from Mr. W. B. Bown, 50 Victoria Road North.

Thursday, October 25

Pharmaceutical Society of Great Britain (East Metropolitan Branch), St. James' Hall, Forest Lane, Forest Gate, E., at 6 p.m. To be followed by a social and dance, commencing at 7 p.m. Tickets, members and student associates free, visitors 2s. 6d. each (including refreshments), from the hon. secretary, W. E. Gaze, 10 The Avenue, Highams Park, E.4, before October 20.

Legal Reports

Unemployment Insurance Case.—At Worcester, on October 11, Mr. Henry James Aubrey, chemist and druggist, was summoned for failing to pay Unemployment Insurance contributions in respect of an apprentice named Ward. A district inspector of the Ministry of Labour said that, although it had been pointed out to Mr. Aubrey that it was his duty to stamp an Unemployment Insurance card, he had failed to do so. The defendant's case was that he had made application for an exemption and had obtained it, and he thought it applied to both Health and Unemployment Insurance. The Bench decided that there had been a technical offence, and imposed a fine of £1.

Shops Act Case.—At Southend-on-Sea, on October 9, William Desmond Noble, drug-store proprietor, Southchurch Road, was summoned for keeping his shop open after 8 p.m. on Sunday, September 23, and his wife, Elizabeth, was summoned for aiding and abetting. A police witness said that at 9.15 on the evening in question he sent a young man into the shop for some tooth paste and defendant served him. The defendant contended that he was entitled to keep the shop open, and that tooth paste was an antiseptic, not a luxury, and came under the class of medicines. If the decision of the Court went against him he intended that the matter should go further. The Chairman: We decide against you, and the fine will be 10s. You can appeal, of course, if you wish to do so. The case against the wife will be dismissed on payment of costs, 5s.

Hire Dispute.—In the Mayor's and City of London Court, on October 11, the Pulsometer Engineering Co., Ltd., Reading, and Tothill Street, Westminster, sued the Isis Chemicals & Dyes, Ltd., for £27 for the hire of a Geryk vacuum pump. Mr. Longland appeared for the plaintiffs, and Mr. Bell for the defendants, who had paid £7 into court in satisfaction of the claim. Mr. Longland said that the original bargain was to hire the pump to the defendants with the option of purchase, but the option had not been exercised by the defendants. Plaintiffs told the defendants that the cost of the hire of the pump was £3 a month, but that they could purchase the pump for £10 within twenty-eight days of the dispatch from London. The defendants had paid for the first month's hire, and had kept the pump ever since. Mr. Albert Sweetman, plaintiffs' London manager, gave corroborative evidence. Mr. Charles Field, director of the defendant company, said that within twenty-eight days of receiving the pump he exercised his option and told the plaintiffs that he would purchase the pump. In answer to the judge, he said that the company was registered in June 1921 in the Isle of Man to save expense. The capital of the company was £30,000, and he could not say how much of that was paid in cash. As far as he could ascertain it was £8,000 approximately. He had put £500 or £600 into the company recently. The judge said the circumstances were a little peculiar. He could not accept the defendants' story, and he must give judgment for plaintiffs for £27 with costs. If the company chose to exact their pound of flesh, there would be nothing to prevent them issuing proceedings for the £3 a month, which was still running on, but he earnestly hoped they would do nothing of the sort.

Hair-dye Damages.—In the King's Bench Division of the High Court, London, on October 17, Mrs. Minnie C. Akerman and her husband sued Mr. W. J. Muldoon, hairdresser, Enfield, for damages for negligence or breach of warranty in respect of the sale of Inecto Rapid. Mr. C. T. Williams appeared for the plaintiffs, and Mr. P. E. Sandlands for the defendant. It was stated by counsel for the plaintiffs that Mrs. Akerman purchased two bottles of the hair-dye at the defendant's shop. After using the dye Mrs. Akerman passed a restless night, and suffered from scalp irritation. Next day she bought an ointment from a chemist, but as she got no relief she went to see a doctor, who treated her, and eventually the trouble disappeared. She applied a little more Inecto, and immediately had a relapse; her condition was such that the doctor almost despaired of her life. Mrs. Akerman gave corroborative evidence, adding that at one period of the illness it was necessary to hold her down. Mr. J. K. Colwell, F.I.C., deposed to having analysed samples of Inecto, and said he found they contained paraphenylenediamine and hydrogen peroxide. The former substance might produce eczema, irritation, dizziness, and nervous trouble under certain circumstances. Mr. Sandlands, for the defence, said the pamphlet in the boxes of Inecto gave directions and instructions for applying the dye, and it was important that these should be followed, because, while Inecto was safe for 999 persons, for the thousandth it might not be so safe. Mr. Muldoon, giving evidence, said he had used Inecto for twenty years, and had sold it for fifteen years; and during the whole time he had never had any trouble of this kind. The jury found for the plaintiffs, and assessed the damages at £50. Judgment was entered accordingly, with costs.

Business Changes

Mr. W. Rigby, chemist and druggist, has purchased the business of Mr. H. Braddock, 223 Church Street, Westhoughton.

Bidwell, Bidwell & Co., Ltd., Axminster, have opened a new London office and showroom at Australia House, Strand, W.C.2. The telephone number is "Central 3765." It is intended to keep a stock of brushes in London, from which urgent orders can be filled.

Mr. Leonard George Boor and Mr. G. D. Greenhough have dissolved partnership, the former having decided to retire from business. The two businesses of Geo. Boor & Co. and D. W. Greenhough & Son will be carried on precisely as before by Mr. G. D. Greenhough at 65 Fenchurch Street, London, E.C.3.

Mr. Edward Thomas, chemist and druggist, 24 Yorkshire Street, Rochdale, has acquired the business of Mr. W. Highley, chemist and druggist, 54 Drake Street, in that town, who is retiring. Until recently Mr. Highley also carried on a pharmacy in Spotland Road. For some years he was President of the Rochdale Pharmacists' Association, an office now filled by Mr. Thomas.

New Companies

and Company News

P.C. means Private Company and R.O. Registered Office

Banff and Moray Agricultural Co., Ltd. (P.C.).—Capital £20,000. Objects: To carry on the business of chemical and acid manufacturers, importers, exporters and manufacturers of and dealers in all kinds of fertilisers, etc. R.O.: Grand Hotel Buildings, Elgin.

Decolourising Materials, Ltd. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers, refiners, importers and exporters of and dealers in and agents for decolourising and absorbent materials, and plant used for the refining of oil; chemists, druggists, oil and colour men, etc. The first directors are: A. P. E. Antrobus, L. P. Antrobus, P. J. McDermott, and H. Moore. R.O.: 25 Market Street, Manchester.

Colin Campbell & Son, Ltd. (P.C.).—Capital £10,000. Objects: To adopt an agreement with C. M. Campbell and to carry on the business of glass merchants and dealers in all descriptions of bottles, jars, receptacles and containers and medical glass, manufacturers of and dealers in earthenware, china and hardware, etc. The first directors are: C. M. Campbell and C. Campbell. R.O.: St. Lawrence House, Trump Street, London, E.C.

"C. Cure," Ltd.—At a meeting held in London on October 3 it was resolved that this company be wound up voluntarily. Mr. T. F. Miller, 61½ Fore Street, London, E.C.2, was appointed liquidator, and a meeting of creditors will be held at the above address on October 23 at 10 a.m.

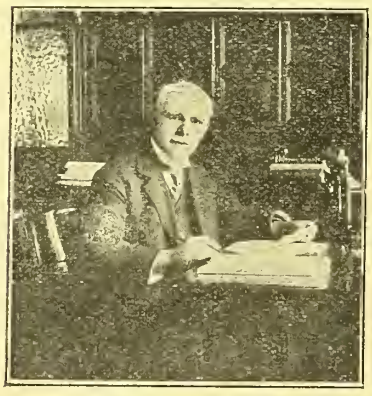
Festivities

Prize Distribution at Birmingham

THE annual distribution of the prizes and medals to the students of the Birmingham School of Pharmacy, held at the Technical School, Suffolk Street, took place on October 10 in the presence of a large audience of students and local pharmacists. The prize-winners were: *Silver medal and £5 value of books*, Mr. H. E. Hewson; *bronze medal and £2 10s. of books*, Mr. D. Draper (these are annually given by the local Pharmaceutical Association); *Botany, prize of books*, Miss V. G. Eaton; *Materia medica prize of books*, Mr. N. V. Mills. The chair was occupied by Mr. Councillor Hume, Chairman of the Birmingham Education Committee, one of the directors in Cuxson, Gerrard & Co., Ltd., Oldbury. Among those present were Dr. Sumpner, Mr. Pilkington Sargeant, Vice-President of the Pharmaceutical Society, who had come down to distribute the prizes; Dr. Newton Friend, Principal of the Technical School Chemistry Department; Messrs. A. W. Gerrard, Rigg, Knowles, Smith (Oldbury), F. Halcock, and E. C. Bennison. Mr. Pilkington Sargeant delivered an address on *Pharmacists' Training and Education*, and outlined the changes which are to take place now and in a few years time. He traced the course of the student from entry to the final examination, and emphasised the desirability of the student being educated up to the matriculation standard. Latin, he said, is not essential, since prescriptions are written in a language which is not Latin. The separation of Part I from Part II and the modifications which are to come into force were enumerated and explained. He strongly commended the work of the local Association and School, and hoped that at no distant date the student would be compelled to receive his training in pharmacies licensed and inspected in much the same way as the several schools are now authorised to take up the teaching of the Qualifying examination. Dr. Lumpner reviewed the work of the past year, and expressed great pleasure at the success of the School, congratulating both teachers and taught on their excellent achievement. He drew attention to the happy result of separating the Qualifying examination, all of their students having passed first time when they took one section at a time. With both parts of the examination at one time their success was not so great. It was a matter of congratulation to the Midland pharmacists that they came along and so liberally provided the incentives to study by their young men and women, who hoped some day to be their successors.

Manchester Pharmacists' Dinner

THE Manchester Pharmaceutical Association Annual Dinner was held on October 10 at the Midland Hotel. On this occasion the function was described as a "Presentation Dinner," opportunity being taken to honour Mr. William Kirkby, M.Sc. The President (Mr. D. Dickson) and Mrs. Dickson received the guests, numbering about 85 members and friends. Among those present were the President of the Pharmaceutical Society (Mr. E. T. Neathercoat, C.B.E.) and the Chairman of the British Pharmaceutical Conference (Mr. Edmund White). Councillor W. Davies, J.P., Dr. E. Bosdin Leech, M.D., L.R.C.P., and the Medical Officer for Stretford. After an excellent dinner the loyal toast was proposed by the President, Mr. David Dickson, after which came the toast of the evening, "Mr. William Kirkby, M.Sc.," proposed by the President. He recalled the splendid work done by Mr. Kirkby during his forty years' connection with the Pharmaceutical Association. Outstanding in merit, he said, were the services he had rendered pharmacy through the various positions held in the Manchester University and in pharmaceutical circles. He was an ex-president of the Manchester Pharmaceutical Association and ex-president of the B.P.C. He was the present chairman of the Manchester and Salford Branch of the Pharmaceutical Society, one of the largest branches outside the metropolitan area. After mentioning many of his other activities, the President said he hoped Mr. Kirkby would long be spared to carry on the splendid work which, he felt sure, he loved, and hoped the volumes of books, which he had great pleasure in now presenting to him as a token of the esteem from his pharmaceutical confrères on the Council of the Manchester Pharmaceutical Association, would be treasured as long as he was spared to read and enjoy them. (Loud applause.) Mr. Kirkby, on rising to respond, received a great ovation, and was greatly touched by the enthusiastic reception. At the outset he said it was on such occasions that one always was not at his best, and he hoped they would excuse any shortcomings on his part. He thanked the President for the very kind words he had uttered, and he could assure them that that day would always be a red letter day in the lives of both he and his wife. Both his sons were present at the dinner, and when he was gone, he said, they would have these books to look upon, and he was sure they would treasure them for all time. (Applause.) "The Pharmaceutical Society of Great Britain" was proposed by Mr. F. W. Bates, J.P. Since the Society had lost some part of what was thought was its work he was pleased to see that they had got to grips with more of the problems confronting pharmacy and particularly educational matters. It was all for the better. In proposing the toast he coupled the names of Mr. E. T. Neathercoat and Mr. Edmund White. Mr. Neathercoat, in his reply, said he was pleased that Manchester had such a good opinion of the work the Society was endeavouring to carry out. At headquarters they always considered what Manchester thought regarding matters pharmaceutical was worthy of considering. (Laughter and hear, hear.) They in London knew what splendid work Mr. Kirkby had rendered to pharmacy, and particularly in connection with the honourable work he had done at the Manchester University, in fact, the degree in pharmacy at the Manchester University was testimony to the unfailing efforts of Mr. Kirkby. Mr. Edmund White, in responding to the toast, also eulogised Mr. Kirkby's abilities. He wished, he said, to remind them that the B.P.C. meeting next July was at Bath, and both he and Mrs. White would be very pleased to extend a hearty welcome to a large number of pharmacists and their wives and friends from Manchester. "The Manchester Corporation" was the next toast, which was proposed by Mr. R. G. Edwards, and Councillor Walter Davies, J.P., replied. In passing, he said, regarding Insurance matters, he was pleased that the pharmacists were not involved in the present strife regarding terms, but it behoved them to keep their house in order. Councillor J. C. Kidd, who was also asked to say a few words, remarked that although he was the only pharmacist councillor in the Manchester City Council, he always kept the interests of the craft in view. Personally he thought it was quite time they had more pharmacists on the Council. Mr. E. H. Simmons proposed "The Visitors" and Dr. E. Bosdin Leech, M.D., L.R.C.P., replied. During the evening, interspersed between the speeches, an excellent musical programme was carried out, to which Mrs. B. Redford, Mr. Albert Bass, Mr. J. H. Franklin, and Mr. R. Stephenson contributed. Votes of thanks were accorded to the artistes for their services and to the President and his wife.



MR. WILLIAM KIRKBY, M.Sc.

"MAN NEVER IS——."—Small boy in a pharmacy: I want to spend my penny. Mother: Well, what do you want to buy? Small boy (pointing to a window-carboy): That big green bottle up there. (Exit with howls of disappointment.)

Proprietary Articles Trade Association

THE usual quarterly meeting of the Council of the Proprietary Articles Trade Association was held at the Hotel Russell, London, W.C., on October 11. There were present :—*Manufacturers' Section* : Messrs. J. A. South, A. R. Lewis, H. S. Kutnow, A. Ridout, J. A. Kenningham, J. Godber, Page Woodcock and Dr. J. J. Pilley. *Wholesalers' Section* : Messrs. W. Edwards, E. Pickering, H. W. Gadd, A. T. Webb, F. J. Smith, G. R. Barclay, H. M. Read, A. T. Hall, F. R. L. Newbery, W. C. Birks, and W. H. Saunders. *Retailers' Section* : Messrs. J. G. Atkinson, R. Feaver Clarke, P. F. Rowsell, John Keall, J. Milner, J. B. Francis, A. Higgs, A. R. Keith, N. N. Armitage, H. H. Marshall, and Dr. A. J. Barnes, and the secretary. Mr. J. A. South (President) was in the chair.

RETAILERS' PROFIT.—The report of the Executive Committee stated that, arising out of a series of applications for price revisions made by manufacturers, the committee has given serious attention to what appears to be a general movement in certain quarters to obtain sanction for price revisions which are not to the advantage of the retail distributor buying in "smalls." Retail protests against such revisions having been strongly expressed, the committee consider that the time has come when members of the Retail Section shall be asked to say whether they wish the Association to make a hard and fast rule that retailers buying in "smalls" must get a certain definite ratio of profit; whether they wish this ratio to be fixed; and, failing its being forthcoming, to insist that the articles concerned be deleted from the Protected List. The executive consider that it is desirable that the matter be discussed at a joint meeting of the Executive of the Association and of the Retail Pharmacists' Union. The joint meeting is to be held on November 27.

PROPOSED RAILWAY RATES.—The railway companies have issued schedules of proposed standard charges in respect of the conveyance of merchandise. In the case of the proposed charges for conveyance by merchandise train, and by passenger train or similar service, the charges are in excess of those at present in force. It is proposed to lodge objections on the ground that the suggested rates are too high, and would affect unfavourably the interests of members of the Association. The matter has been discussed by the Manufacturers' Section, who recommend that the protests prepared in draft by the secretary be lodged with the Registrar of the Railway Rates Tribunal. The section also recommend that, at the appropriate time, the Association act in concert, in regard to this matter, with the Drug Club, the Association of Manufacturers of British Proprietaries, and the Association of British Chemical Manufacturers.

BREAKING OF BULK.—Attention has been directed to the sale by pharmacists of broken bulk of certain P.A.T.A. articles, contrary to the wishes of the manufacturers concerned. The Manufacturers' and Retail Sections have discussed the matter, and the former recommend that the Executive Committee's resolution of July 14 be amended to read as follows :—

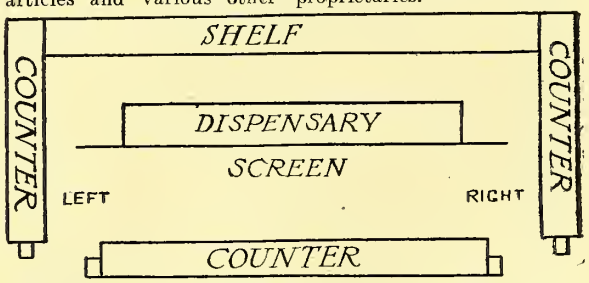
That, except where indications to the contrary appear in the Protected List, the breaking of bulk of individual packages of goods on the List be not permitted, and, if persisted in, will entail the stop-listing of the offender.

NOTICE OF PRICE REVISIONS.—It has been suggested by a member of the Retail Section that manufacturers be asked, through the medium of an open letter in the trade Press, to give due notice to the trade of proposed price revisions. The Retail Section consider that it would be preferable to draw the attention of manufacturers to the matter by means of a notice published in the "Anti-Cutting Record," and the Committee recommend that this action be taken, and, in addition, that a circular letter be sent to P.A.T.A. manufacturers.

Mr. C. H. Ratcliffe (A. J. White, Ltd.) was elected a member of the Manufacturers' Section, in succession to Mr. W. H. Woodward.

Southampton Chemists' Propaganda

AN interesting experiment in group propaganda was recently carried out by sixteen pharmacists in Southampton on the occasion of the Southampton Model Homes and Food Exhibition, held in the Coliseum, Southampton, from September 29 to October 6. The sixteen pharmacists, representing twenty-two establishments, accepted the offer of Eucryl, Ltd., to organise a group stall showing the main features of a pharmacist's business. Messrs. Eucryl guaranteed the expense, and undertook that the cost to each chemist exhibiting should be limited. In return, the pharmacists agreed to show Eucryl dentifrice and to allot a portion of the stall to Eucryl use. The objects aimed at were: (1) To demonstrate the purity of the drugs stocked by Southampton pharmacists; (2) to display the variety and range of packed goods and proprietries held by chemists, and to endeavour to persuade the public, when in doubt, to try their chemist first; (3) to show a little of the skill and care devoted to the service in every chemist's dispensary. The stall was laid out with three sides open, as shown in the diagram. In the centre an imitation dispensary was erected with a small dispensing table. On the left there was displayed a selection of pure drugs and packed medicines; on the front, proprietary foods, Eucryl dentifrice and toilet soaps; on the right, toilet powders, perfumes, manicure articles and various other proprietaries.



The method of working was to have one or two pharmacists in attendance to speak to everyone pausing at the stall. If anyone paused at the right, their attention was directed to a microscope or two certificates, one from the Mayor and one from a prominent London analyst. The Mayor visited nine chemists in the town at random and bought ten samples of drugs. These he submitted to an independent analyst in London, who certified as to their purity; these certificates impressed upon the public the quality of the articles stocked in Southampton pharmacies. The public were persuaded into the stall to inspect the imposing array of delicate dispensing apparatus arranged for them. Here another pharmacist awaited them, and delivered little lectures on the care, skill, and precision of a pharmacist. The public were then impressed with the need for discrimination as to where to buy such articles as were used on face, hair, hands or feet, and were advised to buy from their chemist any article in which purity was an essential. A small pamphlet on the whole subject was given them before they left; this was a neat folder with the names of the contributing pharmacists on one of the sides. It was found that a tablet machine, two microscopes and a tube-filling machine, shown by Eucryl, Ltd., attracted the attention most. The slides selected were the proboscis of a fly and the head of a flea, the moral being to keep free from dirt and disease and go to the chemist for purity. The attendance at the stall was very good, and a rota of pharmacists was formed so as to have plenty of expert help always available. There is no doubt that much propaganda work has been done by this means on behalf of pharmacy, and little doubt is felt that the time and money spent will be more than repaid in the near future.

CHEAPER BOTTLES IN SIGHT.—It is reported in Czecho-Slovak trade papers that shortly a considerable decrease in the price of glass bottles will take place, amounting, it is stated, to between 20 and 30 per cent.

Pharmaceutical Society of Ireland

Council-meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 9, Dr. A. J. Barnes (President) in the chair. The following were also present: Messrs. R. Blair (Vice-President), D. M. Watson (treasurer), Dr. J. A. Walsh, Messrs. James Michie, G. A. McLean Lee, Denis J. Nugent, F. J. Fitzpatrick, Michael Ryan, Andrew Wilson, Fred Storey, John A. Bingham, John Adams, Victor E. Hanna, James A. Doyle, John Smith, and Wm. J. Hardy.

WELCOME TO NEW MEMBER

The PRESIDENT introduced the new member of Council, Mr. John Adams, Belfast, who, he said, was present that day for the first time. He extended to Mr. Adams a very cordial welcome amongst them. (Applause.)

Mr. ADAMS thanked them very much for their kind reception. He hoped he would be able to carry out the duties which devolved upon him. He would do his best. (Applause.)

ELECTION OF PRESIDENT

Mr. JOHN SMITH proposed the re-election of Dr. A. J. Barnes as President of the Society. He said that on looking over the calendar when the replicas of the presidential badge had been presented to the ex-presidents his recollection that the President had, on certain occasions, occupied the position for more than two years, had been confirmed. The present he considered an exceptional period as regarded the Pharmaceutical Society, and he thought that, taking everything into consideration, it would be very unfortunate if they made any alteration in the office of President for this year. He knew that Dr. Barnes found the office very exacting. He was of that temperament that he must give his best to whatever he had in hand, and for that reason he (Mr. Smith) was sure that Dr. Barnes found the duties very onerous. But taking everything into consideration, and especially his past record in the chair, he thought that the Pharmaceutical Society would be under a deep obligation to Dr. Barnes if he remained in office for another year. They were in what he might call a transition period. They had negotiations proceeding in connection with what was popularly called the partition of the Pharmaceutical Society. They hoped that something might be evolved that would prevent that maturing. Dr. Barnes was in touch with the negotiations so far as they had gone, and knew perfectly well that the negotiations would have to be of a very delicate nature. As he had participated in them, it was right that he should see them carried to fruition. He knew that Mr. Blair (the Vice-President) would make an excellent President. He was sure they were all agreed as to that. But, because of Mr. Blair's geographical position as regards Dublin and in view especially of the negotiations with the Government, he (Mr. Smith) thought it would be a great mistake if they swapped horses in crossing the stream at the present time. For that reason he had much pleasure in proposing that Dr. Barnes be elected President for the ensuing year, and he hoped that he would see his way to accept the office.

Mr. FITZPATRICK said he had great pleasure in seconding the motion. He was strongly opposed to a lengthened term of office. But this was an exceptional occasion. If Dr. Barnes accepted the office his colleagues would have to make his duties as light as possible. He hoped Dr. Barnes would accept.

Mr. BLAIR said Mr. Smith's motion seemed a reasonable one considering the times they were going through at present, and he would like to support the motion that Dr. Barnes should continue in the chair, and the motion for the re-election of Dr. Barnes was passed unanimously.

The PRESIDENT said he had to thank them very much indeed for the honour which they had conferred upon him in electing him as their President for a third year of office. He greatly valued the personal compliment which that election conveyed. He felt, however, that he must be quite frank and say that, having completed the usual two years' presidency, he had fully expected to be relieved of office. But he now quite recognised that circumstances altered cases. They had just been reminded that a great deal of highly responsible and very anxious work lay ahead of the Council in the near future. That work concerned not only the future of the Society, but also the future of pharmacy in the whole country. The work had already been commenced, and, as Mr. Smith very appropriately put it, it would not be wise to change horses while crossing the stream. With that opinion he quite agreed, and that was the reason why he would consent to accept office for an extended period. His one hope was that the results of their work would materialise without any undue delay, and that he would have the pleasure sooner than was expected of handing over the reins of office to his successor with its duties unburdened by any big tasks. He trusted also that their work would bear good fruit, and that, whatever body would evolve as the result of that work, whether it be still called the Pharmaceutical Society of Ireland or possibly be renamed the Pharmaceutical Society of the Irish Free State, it would be of lasting benefit to pharmacists all over the country for many generations to come. He thanked them again for the honour they had done him, and he also very highly appreciated the complimentary remarks which had been made in regard to his efforts at chairmanship. He would continue to do his very best always with the highest interests of Irish pharmacy uppermost in his mind. (Applause.)

OTHER OFFICERS

The PRESIDENT said he would like to have the very great pleasure of proposing the re-election of his friend Mr Blair as Vice-President for the ensuing year. During Mr. Blair's term of office the one thing that had struck him about Mr. Blair was, not the number of times that he had been absent, but the number of times that he had been present. They all knew the extreme difficulties that had existed within the last couple of years in the matter of travelling between Cork and Dublin, and he thought that Mr. Blair had exhibited very great courage indeed in coming to them as often as he had done. At one period he had to travel by sea, a most uninviting prospect, absorbing at least three days for the journey from Cork and back. He (the President) had been very pleased to see a few days ago in the newspapers the picture of the last span of the new viaduct at Mallow being placed in position. That would ensure the continuity of the railroad between Dublin and Cork. He was sure therefore that they might count upon seeing Mr. Blair with them and having his genial presence more frequently than before. He was sure they would all join with him in wishing him very many years of useful association with the Council. (Applause.)

Mr. STOREY had much pleasure in formally seconding the proposal. He admired the splendid spirit Mr. Blair had exhibited that day in allowing his name to stand aside when in the ordinary course he was entitled to the office of President. He would also like to congratulate the President on his re-election to the chair. As one who had introduced probably a good many thorny subjects he would like to testify to the way the President had treated him—with the utmost respect. The President had appreciated that anything that he (Mr. Storey) had brought forward had been brought forward in the best interests of pharmacy and of all concerned. He would be sorry to allow that occasion to pass without congratulating the President on the dignified and courteous manner in which he had occupied the chair within the past few years; and he thought that Mr. Blair was also to be congratulated on the spirit he had shown there that day.

The proposal for the re-election of Mr. Blair as Vice-President was passed unanimously.

Mr. BLAIR said he was very much obliged to them for the manner in which they had received his name. He felt that it was a duty to the Council that he should stay in the position he occupied, because, living so far away as he did, he could not always be at hand, while the President lived on the spot. He felt he had done his best for the Society; and in doing his best for the

Society he hoped to do his best for the members in general. (Applause.)

Mr. HARDY said that as one of the old members of the Council, who might not have an opportunity next year of proposing any member of the Council, he had very very much pleasure in proposing that his old friend, Mr. Watson, be retained as treasurer.

Mr. LEE said he had very much pleasure in seconding.

Mr. WATSON, whose re-election was carried unanimously, duly expressed his thanks.

On the motion of Mr. Storey, seconded by Mr. Hanna, Messrs. Lee and Ryan were re-appointed auditors.

ELECTION OF COMMITTEES

The Committees were elected as follows, on the motion of Mr. Hanna seconded by Mr. Wilson :—

Law Committee.—Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. J. E. Connor, J.P., John Adams, J. A. Doyle, F. J. Fitzpatrick, V. E. Hanna, W. J. Hardy, G. A. McLean Lee, R. F. McCartney, James Michie, D. J. Nugent, John Smith, I. Fred Storey, and D. M. Watson.

Committee to Inspect Candidate's Certificates.—Dr. J. A. Walsh, Messrs. F. J. Fitzpatrick, V. E. Hanna, D. J. Nugent, and John Smith.

House and General Purposes Committee.—Dr. Mitchell, Dr. Walsh, Messrs. Doyle, Hanna, Hardy Lee, Nugent, Michael Ryan, Smith, and Watson.

School Committee.—Dr. Mitchell, Dr. Walsh, Messrs. J. A. Bingham, W. J. Hardy, Nugent, Smith, Watson, and Andrew Wilson

Committee to Examine Declarations, etc., of Candidates for Examination and Registration as Registered Druggists.—Messrs. Fitzpatrick, Hanna, Smith, Samuel Suffern, and Watson.

CHANGES OF ADDRESS

The following notified changes of address :—Mr. Henry Fergusson, Ph.C., to c/o Mill and Breda Streets, Cape Town; Mr. H. Corbett Meyrick, Ph.C., to "Innisfail," 8 Sturdee Road, Edge Lane Drive, Liverpool; Mr. McRoberts, Ph.C., to Le Ballyclare, co. Antrim; Mr. John C. Flood, Ph.C., to The Medical Hall, Francis Street, Dundalk, and Mr. P. J. D'Arcy, Ph.C., to the Tipperary Pharmacy, D'Arcy's Corner, Tipperary.

PRELIMINARY REGISTRATION

The following submitted certificates from the Intermediate Education Board and were admitted to Preliminary registration :—Mr. G. J. MacKenna, Court House, Armagh; Mr. A. J. Lyons, Bekan, Ballyhaunis; Mr. John D. Floyd, Main St. Tulla, co. Clare; Mr. Edward Duncan, 52 Dartmouth Square, Dublin; and Mr. Cecil Leonard James Taylor, The Medical Hall, Enniskillen.

VARIOUS REPORTS

Reports from the following committees were received and adopted :—The Law Committee, the Certificate Committee, the Declarations Committee, and the House Committee. The Registrar (Mr. A. T. Ferrall) also submitted a report regarding the death of Mr. Henry Charles Dillon, Ph.C., who had been accidentally drowned in the River Shannon. (*C. & D.*, Septemeber 15, p. 376.)

ELECTIONS AND NOMINATIONS

The following were elected as members :—

Mr. J. T. Herbert Orr, Ph.C., The Manse, Warrenpoint, co. Down, and Mr. John A. Mallon, Ph.C., Magherafelt. Mr. G. W. G. McCann, R.D., Portrush, was elected as an Associate Druggist.

The following were nominated for membership :—

Mr. John Downey, Ph.C., The Pharmacy, 6 Main Street, Cashel; Mr. John Laurence McKeown, Ph.C., 3 Morley Terrace, Waterford; Mr. Samuel A. Rosenthal, Ph.C., The Modern Pharmacy, 6 Merrion Row, Dublin; and Mr. Joseph Crown, Ph.C., Medical Hall, Mohill, co. Leitrim.

MEMBERS AND ASSOCIATE DRUGGISTS

After some discussion, the following resolution which, on the motion of Mr. Storey seconded by Mr. Michie, had been passed at the annual meeting of the Society on October 1, was referred to the House Committee :—

That, in view of the fact that there are only about one-third of the Licentiates and Registered Druggists who are Members or Associate Druggists, steps be taken to increase the number.

British Chemical Industry

A MEETING of the Western (London) Pharmacists' Association was held at 192 Oxford Street, London, W., on October 17. Mr. Harry Martin (President) occupied the chair, and called on Mr. W. J. Uglow Woolcock, C.B.E., to give an address on *British Chemical Industry and the Pharmacist*. After referring to the national importance of the British chemical industry, Mr. Woolcock pointed out that the war had led to a reorganisation of British industries. There is no branch of the chemical industry which does not supply something in daily use in pharmacy. The industry with a capital of one hundred and fifty millions is composed of twelve groups, each independent units yet interdependent. Moreover, each has its particular policy, but the interests of the whole are looked after by a council with representatives of each section. In this way the decisions arrived at are excellent, and, apart from the interlocking of capital, Mr. Woolcock considered there is no better organisation anywhere. The biggest problem to-day in the chemical industry is the attempt to deflate plant capacity from the high war production to normal requirements. This trouble is world-wide. In the heavy chemical industry Great Britain has always been pre-eminent, and this has merely to be maintained. In the war the Germans erected the Badische Haber plant, and Britain's reply to this was the building of the enormous ammonia works at Billingham. The plant there turns out 100 tons of ammonia daily, but can produce 300 tons if required. As regards sulphuric acid, it was of interest to note that the trend of manufacturers was to abandon pyrites and use sulphur. Eight Government factories were erected during the war for wood distillation, but at present there is no waste wood, and we are again compelled to go abroad for such products as acetic acid and acetone. The opinion is held, however, that the natural product will have to give way to the synthetic, and so this country would again become self-supporting in that respect. To develop an industry one of the first essentials is co-operation. There is a disposition to ask for Government assistance, but until recently the Government has not regarded this matter favourably. At present we are not so unfortunate as America or so fortunate as Germany. There is a happy medium, and he believed the Government to be favourably disposed towards this stage. There are three ways in which a Government can assist our industry: (1) Subsidy; (2) imports under licence; (3) tariff. The first form he considered the worst, the second he illustrated by the Dyestuffs Act, mentioning that whereas before the war we imported 80 per cent. and manufactured 20 per cent. of the dyestuffs used, the position in 1922 was exactly reversed. The third method, that of a tariff, usually satisfied no one, not even the manufacturers it was designed to assist, but the Act had had results, remarkable ones in some ways. Another important matter in the developing of an industry was publicity. He did not think anything similar to what is being attempted at the British Empire Exhibition has ever been attempted by any other nation. In the centre of the scientific section is to be said, in inanimate things, "this is the British chemical industry, and if you think it is going to peter out look behind it, and you will see it is not a flash in the pan." In the course of the discussion, which was taken part in by Miss Hooper, Messrs. Stroyle (Ealing), Irwin (President of the Ealing Pharmacists' Association), A. R. Melhuish, W. Browne, R. R. Bennett, J. P. Ellerington, B. A. Wilkinson, and others, Mr. Phillips raised the question of how the pharmacist could give publicity to chemicals. He objected to selling, for instance, sodii bibor, with a proprietary name attached, and considered that the B.P. standard should be that of the highest purity, a point deprecated by the next speaker, Mr. Mallinson, who mentioned that it is difficult to defend chemists in many police court cases now, but if absolute purity is insisted on defence would be almost impossible. Mr. E. White gave an interesting account of a branch of the industry which had derived material advantage from the protective tariff, and the meeting closed with a vote of thanks to Mr. Woolcock.

Dublin Retail Drug Association

Annual Meeting

THE annual meeting of the Dublin and Provincial Retail Drug Association was held at 67 Lower Mount Street, Dublin, on October 8. Mr. Robert Mellon (President) was in the chair. There were also present: Dr. J. A. Walsh, Sir Thomas Robinson, Messrs. D. Warwick, R. E. Campbell, Geo. Brown, Denis J. Nugent, Wm. Jones, G. A. McLean Lee, D. M. Watson, F. J. Fitzpatrick, V. E. Hanna, and S. A. Rosenthal.

PRESIDENT'S ADDRESS

The PRESIDENT said that, during the year, 26 meetings of the Committee had been held, and they had been fairly well attended. 765 price changes had been sent to members, and a considerable amount of assistance had been given to members by the secretary on various matters. The number of members at the beginning of the year was 288; ten new members were elected, two members resigned, and 37 were in arrears with their subscriptions, leaving a membership of 257. Every effort was being made by the Committee to induce members to continue their subscriptions to the Association, and if any members of the Association could help them in this respect the Committee would be very grateful to them. Among the many matters dealt with by the Committee during the year was the question of duties on importations of drugs. A deputation to the Chairman of the Inland Revenue Board, together with members of the London Drug Club, had been received at Dublin Castle, and certain proposals had been put forward. But it was to be regretted that they had not been agreed to. They had also sent a deputation to the Fiscal Inquiry Committee in reference to the Key Industry Duties and duty on ether and chloroform, etc. The Committee were glad to note that the Fiscal Inquiry Committee had recommended abolition of Key Industry Duties. Complaints had been received from members that the closing hour as fixed by the Shops Act was not being observed. Their committee had reported the matter to the Public Health Committee, which had promised that future breaches of the Act would be followed by prosecutions. Their Committee considered that where the closing hour had been fixed it should be loyally observed by all. Their Committee had also had correspondence with the Commissioner of Police regarding loiterers who congregated outside chemists' shops, and the Commissioner had promised to put special men on to deal with this nuisance. So far, it did not seem to have had effect.

The strike in wholesale houses had caused grave inconvenience to the trade, especially regarding supplies that could not be got by parcel post. It was hoped that some effort would be made to end this dispute, which was one of the many that was having such a harmful effect on the commerce of the city. Notices had been sent to all members regarding the provisions of the Dangerous Drugs Act, and they had also been reminded of a very important matter, viz., the coding of prescriptions. The code had been put into force for the benefit of the trade generally, and was a source of great convenience and gain to members, and in their own interests members were strongly recommended to report to the secretary cases where prescriptions were not coded. It had been reported to their Committee that the Government were being urged to abolish the licence for the sale of wines now held by chemists, and in order that there should be no possible cause for such action the Committee recommended members to cease selling wines on Sundays. The annual dinner held last November had been a great success. He hoped that arrangements would be made to hold the dinner at or about the same date this year. The financial position of the Association, which their treasurer would unfold to them, showed a very healthy state of affairs. They had now a considerable sum of money, and the position of the Association in this respect was better than ever it had been.

He would like to thank the secretary (Mr. Robert J. Kidney, F.S.A.A.), who during the year had given him help in every respect, and also the members of the Committee, and, in fact, the members of the whole trade.

FINANCIAL STATEMENT

Mr. MCLEAN LEE (Treasurer) presented a statement of accounts. He said the President had informed them that there were 37 members in arrears. They had not taken any note of them in the accounts, as in all probability the bulk of their subscriptions would be bad debts. On the motion of the President, seconded by Mr. Warwick, the accounts were adopted.

WORKING OF THE ASSOCIATION

Sir THOMAS ROBINSON congratulated the President and the Association on the year's work, and expressed satisfaction at the way in which the President had carried on the business of the past year. He felt proud of the Association. When they considered the way the trade was when they started the Association, and for years before it, he was sure they would all agree with him that they had accomplished a tremendous amount of good work. He did not think that the men who had met there thirteen years ago to form the Association had any idea of the great success that would attend its efforts. It was greatly to the credit of the chemists that they had been able to hold together and work with such wonderful harmony in that long period. They had had, of course, a good deal of criticism from members of the Association from time to time. But it had always been healthy criticism. They knew perfectly well that the success of the Association had meant a great deal to them. The Pharmaceutical Society was only a licensing body, and it took quite a generation to train the trade all over the country to the fact that they need not expect to get any help in the details of their business from the Council of the Pharmaceutical Society. When the Association was formed it was eagerly taken up, and, largely through the efforts of Mr. V. E. Hanna, who spared no effort to make it a success in the country, they received tremendous support. They had there that night the report of another good year's work. They had never had a more hardworking or energetic President than Mr. Mellon. Mr. Mellon had never spared himself on any occasion to forward the business of the Association. He thought the accounts were wonderfully good, and that a great deal of economy had been exercised. The only thing they regretted was that thirty-seven members had fallen out. He could not understand a man who had participated in the work and benefits of the Association falling out. Members of the Association should recognise the efforts of the President and others and express their appreciation. (Applause.)

Mr. FITZPATRICK said Mr. Mellon had been a most energetic President, and although a very busy man he had given his valuable time to help the interests of the trade. It had come almost as a shock to him (Mr. Fitzpatrick) to hear that thirty-seven men had retired during the year. He thought they ought to make some strong efforts to make those men reconsider their position.

The PRESIDENT thanked Sir Thomas Robinson and Mr. Fitzpatrick for the kind words they had said of him, many of which, he said, he did not deserve. Never during the whole year had he asked a single request from any member of the committee that he had not been always willing, and more than willing, to help in every possible way.

CODING OF PRESCRIPTIONS

A discussion took place with regard to the coding of prescriptions. Some members were evidently under the impression that the code on a prescription did not compel those making it up subsequently to charge the same price. It was understood that the intention of the Association was that a lesser price should not be charged. A discussion afterwards took place with regard to the compulsory closing hour for chemists.

ELECTION OF OFFICERS

At a meeting of the Committee of the Association held subsequently, the President and other officers of the Association were elected as follows:—*President*, Dr. J. A. Mitchell; *Vice-President*, Mr. H. H. Oliphant; *Secretary*, Mr. V. E. Hanna; *Auditor*, Mr. D. Warwick; *Treasurer*, Mr G A. McLean Lee.

Pharmaceutical Botany

XXVII. The Flower and Inflorescence

THIS series of articles has presented a continuous picture of progressive relegation of sexual reproductive functions to specialised branches, culminating in the Angiospermous flower. Article XX should be read again before passing on to the details of floral structure below. There it is shown that the flower is a dwarf branch or shoot of limited growth, wherein more primitive spiral arrangement of floral leaves or sporophylls has given way to development at same level (cyclic or whorled) as their number diminishes and internodes are suppressed. The buttercup was illustrated (Fig. 58) as a useful floral type for comparative study. Fig. 83 presents a schematic arrangement of the floral parts of a buttercup flower, as it would appear if they were borne on a lengthened axis. The unopened flower-bud is not unlike that of an ordinary (branch) bud, being usually green in colour, but more rounded. All buds normally arise in the axil of a leaf, but this leaf when it subtends a floral branch or inflorescence is termed a "bract" (see Fig. 87). The outer protective (sterile) floral leaves are called the perianth (peri = around). Originally these were probably fertile sporophylls, the water lily (Fig. 57) showing all transition stages between sterile and fertile floral leaves. Such a "simple" perianth is present in many Monocotyledons and some Dicotyledons (oak, elm, etc.). Developments in connection with pollination or transference of pollen from the stamens (or microsporophylls) to the carpels (or macrosporophylls) through the agency of insects has led to differentiation of this perianth into protective sepals and attractive petals. Stamens and carpels also present great diversity in form and number, according to method of pollination by animals or wind. Another tendency is towards the submersion of central carpels by carrying up of outer floral members on an outgrowth of the axis. Thus in Fig. 84, at A, is illustrated the normal arrangement with floral members crowded at the apex of the conical floral axis or "thalamus." At B is shown the gynæcium or perigynous arrangement in which the sepals, petals, and stamens are borne up on an outgrowth of the thalamus, so as to surround the central ovary. In C

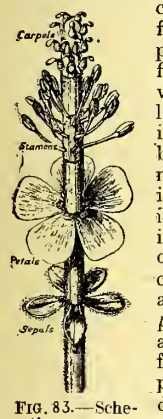


FIG. 83.—Schematic arrangement of floral members of a buttercup on an artificially elongated axis.

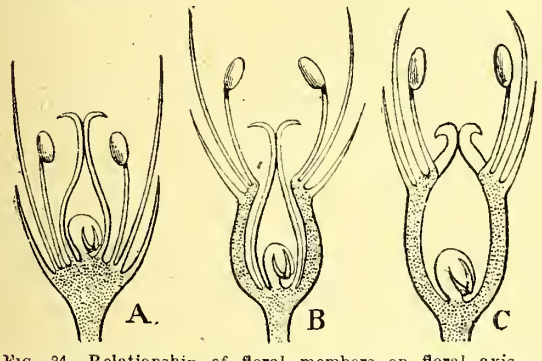
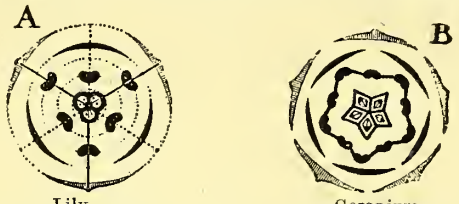


FIG. 84.—Relationship of floral members on floral axis. A. Normal type with successive levels crowded on flattened axis (or thalamus); ovary superior. B. Sepals, petals, and stamens carried up around ovary on outgrowth of thalamus (perigynous). C. Ovary has become "inferior" by fusion of axis with walls of ovary, so that floral members appear to spring from top of ovary.

this outgrowth has fused with the carpels forming the wall of the ovary, so that the sepals, petals, and stamens appear to be inserted upon the top of the ovary. The union of floral parts is of considerable importance in plant classification. Floral formulas and floral diagrams give much aid in comparing differences in characteristics of flowers of different natural orders. Fig. 85 shows types of Monocotyledonous and Dicotyledonous flowers approaching an ideal (derived) arrangement in 3's or 4's and 5's respectively. It must be remembered that in artificial, primitive forms have more, and more modified less, than the type number of parts; also that different parts of the flower may vary greatly in evolutionary progress. By taking the form and arrangement of sepals, petals,



Lily
[P(3+3)A3+3]G(3)

Geranium
K5P5A(5+5)G(5)

FIG. 85.—FLORAL DIAGRAM AND FLORAL FORMULÆ.
A. Trimerous Monocotyledonous type (lily). B. Pentamerous Dicotyledonous type (geranium).
P (initial) = perianth: K = sepals: P = petals: A = androecium or stamens: G = gynæcium or carpels. Brackets denote parts united.

stamens, and carpels in Fig. 83 as typical of the Angiospermous flower, other types are derivable therefrom by simple modifications. Our syllabus will afford examples and provide opportunity for explaining the cause of these variations.

The collections of flowers known as inflorescences illustrate another complicating factor in evolution of plant parts, namely, reduplication, both in number of flowers and in members thereof. Should the floral axis terminate in a single flower, this is termed solitary. It is more usual for several or many flowers to develop together and form an inflorescence. Whereas in ordinary branches most of the buds in the axils of leaves remain dormant, in floral axes it is quite common for all of these to develop into flowers. The branching of the floral axis (which serves also to illustrate ordinary or stem branching) is of two main types. Fig. 86 shows the continued or indefinite form of branching. In this the terminal bud continues the growth the main axis and gives off lateral branches in succession, so that the oldest is nearest the base and the youngest nearest the apex. The typical inflorescence is the raceme (A), with stalked flowers. The "spike" (B) is derived by non-developments of flower

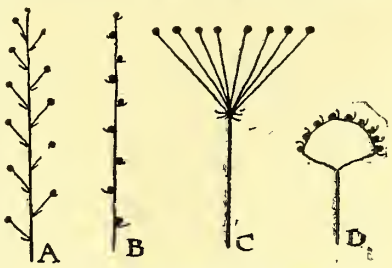


FIG. 86.—INDEFINITE OR RACEMOSE INFLORESCENCES.
A. Raceme. B. Spike. C. Simple umbel. D. Capitulum.

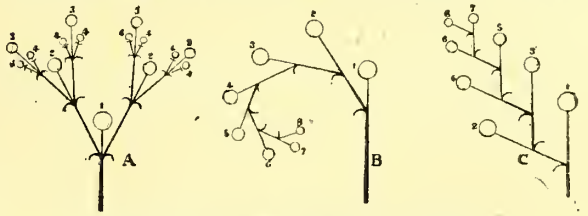


FIG. 87.—DEFINITE OR CYMOSE INFLORESCENCES.
A. Dichotomous cyme (or dichasium). B. Scorpioid cyme. C. Helicoid cyme.

stalks. In the umbel (C) the axis has not elongated, while in capitulum (D) both stalks of flowers and elongation of axis have been suppressed. In cymose inflorescences (Fig. 87) the formation of a flower ends the growth of the main axis, and further flowers are formed on secondary axes arising below this, which again end in flowers. Owing to vigorous growth the lateral branches of a

cymose inflorescence often overtops the original apex and may even form a false axis or sympodium built up of successive lateral axes. Indeed, a scorpioid or helicoid cyme (Fig. 87) may by straightening simulate a raceme so closely that it is indistinguishable therefrom except by flowers being *opposite* the bracts instead of in their axils. The succession of flowers is the readiest mode of distinguishing between indefinite (racemose) and definite (cymose) inflorescences, the oldest being outermost in the former and central in the latter.

The Insulin Patent

As a rule, patent specifications are confined to terse technicalities, and are scarcely regarded in the light of informative contributions to our general knowledge of some process. Insulin makes an exception, and the British Patent No. 203,778, for "A Method of Preparing Extracts of Pancreas, suitable for Administration to the Human Subject," granted to Messrs. F. G. Banting, J. B. Collip, and C. H. Best, all of the University of Toronto, embodies a review of the attempts hitherto made by investigators to treat diabetes with a preparation of the panereatic gland, a description of the metabolic changes responsible for the production of diabetes and the experimental data relating thereto. These introductory remarks are followed by an exposition of the conception upon which the patentees based their investigations, with details regarding their experiments and observations. The clinical effects of the anti-diabetic principle obtained as a result of these experiments are summarised; details concerning its administration are given, together with various comments—for instance, "the indiscriminate use of this product in the treatment of diabetes mellitus is a real source of danger"; "overdosage of the product is followed by the development of serious signs and symptoms demanding immediate treatment"; "some patients have been able to resume their former occupations after a month's treatment." Thus, 401 lines of the specification are devoted to an interesting and instructive review of the principles underlying the use of pancreatic extract in the treatment of diabetes—a comprehensive, if condensed, summary of the available information on this subject. The actual method of preparing "a potent preparation of the extractive of the internal secretion or hormone of the pancreas of mammalia" is described as follows :—

The fresh pancreas of the ox is minced and then mixed with an equal volume of alcohol of about 95 per cent. strength. The mixture is strained and filtered to separate the inert associated gland tissue from the substances which had gone into solution in the alcohol. The filtrate is further treated with several volumes of the same solvent and allowed to stand several hours with occasional agitation. The greater bulk of the protein is precipitated by this treatment and the resulting precipitate is removed by filtration. This purification of the extract by precipitation with alcohol is most important. The filtrate is subjected to vacuum distillation at a temperature of about 30° C. to obtain a solution concentrated to the extent of eliminating all, or substantially all, the alcohol. The concentrated solution is twice extracted with ether and the lipoid substances are removed by this treatment. The ether is separated mechanically and the solution returned to the vacuum still and concentrated further to eliminate all or substantially all the ether. Alcohol is then added to make this concentrated solution 80 per cent. alcohol and the mixture is thoroughly agitated. The greater bulk of the saline substances is thus "salted out" by this treatment and there is also precipitation of more protein. The solution or mixture is then centrifuged. After centrifuging, four distinct layers have been manifested in the tube. The uppermost layer was perfectly clear and consisted of alcohol holding all the internal secretion of hormone in solution. Below this and in the named order were a flocculent layer of protein, a second clear or watery layer saturated with salt, and a lowermost layer consisting of crystals of salt. The uppermost layer is next siphoned off and treated with several volumes of 95 per cent. ethyl alcohol to separate by precipitation any substances which may be still present with the hormone. The last-mentioned substances may be caught on a Buchner funnel. The alcohol is distilled off and the hormone is finally dissolved in distilled water. The resulting aqueous solution of the hormone is then concentrated to a standard degree by vacuum distillation at room temperature, the desired concentration being determined by a biological test, and the concentrate is next filtered through a Berkefeld filter to sterilise it. A preservative such as tri-cresol may be added, the concentration of the same not exceeding 0.7 per cent.

Finally, the following three claims are made by the patentees :—

(1) A method of preparing, for use in the treatment of diabetes, a pancreas extract which contains the anti-diabetic principle or hormone, characterised by this that the pancreas is first treated with a solvent, such as alcohol, which inhibits the deleterious action of the enzymes on the hormone, then removing as far as possible the proteins and salts from the solution by precipitation, and finally separating by precipitation any substances which may be still present with the hormone.

(2) An improved method of preparing a pancreas extract for use in the treatment of diabetes, which consists in finely dividing the pancreas and mixing it with alcohol, straining or filtering the mixture to separate inert gland tissue from the substances dissolved in the alcohol, treating the filtrate with several volumes of alcohol, removing the precipitate by filtration and concentrating the filtrate, treating the latter with ether, eliminating the ether, adding alcohol, centrifuging the mixture to cause it to form into layers so that the uppermost one consists of alcohol holding the hormone in solution, the lower layer or layers consisting of flocculent protein, salt solution and salt crystals, subsequently removing the uppermost layer and treating the same with several volumes of 95 per cent. ethyl alcohol, to separate by precipitation any substances which may be still present with the hormone, thereafter distilling off the alcohol, dissolving the hormone in distilled water, and concentrating the aqueous solution, sterilising it and adding a preservative.

(3) A pancreas extract when made according to either of the preceding claims, containing in concentrated form the active anti-diabetic principle or hormone, sufficiently free from injurious substances for repeated administrations and having the physiological characteristic of causing a reduction of blood sugar useful for the treatment of diabetes mellitus.

It will be seen from the foregoing that the patent refers exclusively to a pancreas extract for the treatment of diabetes, and in the three claims this specific use is distinctly stated. It will be noted that the method of preparation set forth in the patent specification differs in some points from that recently published by the Council on Pharmacy and Chemistry of the American Medical Association (*C. & D.*, July 14, p. 45). According to the former the fresh pancreas is extracted with an equal volume of alcohol (95 per cent.), whereas in the latter, the glands, after the removal of the fat and connective tissue, are extracted with 1½ volumes of alcohol (95 per cent.) containing 0.11 per cent. of absolute sulphuric acid.

Gazette

Bankruptcy Acts

ADJUDICATION

EGELNICK, S. S., 19 Nicholas Street, Stepney, London, perfumer and chemists' sundriesman, under the style of Stanley Sidney.

Wills

MR. WILLIAM PETER CHESTERTON, chemist and druggist, 112 Frederick Road, Stechford, Birmingham, who died on July 27, left estate of the gross value of £3,111 15s. 7d., with net personalty £1,841 11s. 3d.

MR. CHARLES EDWIN MUSGRAVE, F.C.I.S., 239 Temple Chambers, Temple Avenue, London, E.C., secretary of the London Chamber of Commerce, who died on August 3, aged sixty-two years, left estate of the gross value of £2,072, of which £1,583 10s. 5d. is net personalty.

Personalities

Councillor S. Sadler (Sadler & Co., Ltd., manufacturing chemists) has accepted the mayoralty of Middlesbrough for another year.

Mr. C. B. Porter, sales manager of Kolynos, Inc., London, W.C.1, sailed per s.s. "Adriatic" from Liverpool, on October 13, on a business trip to the United States.

Mrs. Gifford, wife of Mr. R. Lord Gifford, J.P., Ph.C., Blackburn, successfully underwent an operation on October 11, and is reported to be making satisfactory progress.

Mr. George Brown, representative and licensed valuer for Evans Sons Lescher & Webb, Ltd., London, has removed from 14 Bingham Road, Addiscombe, Croydon, to "Pentlands," Cheyne Walk, Croydon.

We learn that from the list of successful candidates at the recent Qualifying examination held in Edinburgh (officially supplied) the names of Messrs. W. Brown, Blackhall, and A. W. Keith, Kintore, were omitted.

Mr. H. E. Chapman, who has been appointed assistant secretary of the Proprietary Articles Trade Association, was formerly on the editorial staff of "The Pharmaceutical Journal." Mr. Chapman was apprenticed to Duberly & White, Luton, and gained further experience in London and the South of England. He qualified in 1914, joined the Forces after the outbreak of war, and served for three and a half years overseas.

Mr. William Barthel, whose death was announced in the *C. & D.* last week, was not connected with Barthel Bros. & Gray, Ltd., but was the father of two of the directors. Mr. Barthel spent most of his life in the chemical trade, and was well known in the City in chemical circles in London and on the Continent. It was while in Cologne a year ago that he had an apoplectic seizure, from the effects of which he died.

Mr. E. Alfred Webb, Ph.C., deputy-chairman of Evans Sons Lescher & Webb, Ltd., lectured to a large gathering at the Church of St. Bartholomew the Great, London, E.C., on October 13, his subject being the history of the church, which has been open continuously for 800 years. At the close of the lecture, interested groups examined more closely some of the architectural features of the building under the guidance of Mr. Webb and other authorities.

Mr. Charles Jenkin, chemist and druggist, Lower Bristol Road, Bath, who has been nominated as Mayor for the ensuing year, was born at Richmond, Surrey, forty-nine years ago. His early life was spent at Camborne and in the city over which he is to preside. He studied at the South London School of Pharmacy, qualifying in 1898, and for the next eight years managed pharmacies at Redhill and St. Albans. In 1906 he opened a new business at Bath, and in this, now one of the largest in the city, his elder daughter assists him. Entering the City Council in 1911, Mr. Jenkin remained unopposed until nine years later, when he obtained a majority of nearly 1,000—a record for the city. On the Council he is a worker rather than a talker, and it is generally felt that the choice is an excellent one. Mr. Jenkin married twenty-one years ago, and has a family of three children. Those who attend the British Pharmaceutical Conference at Bath next year will have the pleasure of making Mr. and Mrs. Jenkin's acquaintance in their official capacity.

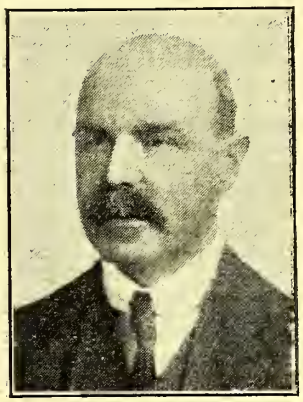


Mr. C. Jenkin.

Mr. John Lorimer, whose reminiscences interested *C. & D.* readers some time since, has contributed to a Bournemouth paper an account of a motor tour from Devonshire through East of Scotland and back to Surrey, which he and his fourth daughter undertook last August. The tour occupied twelve days, and Mr. Lorimer recommends it to anyone who may be "run down."

Mr. Thomas J. Keenan, F.C.S., East Orange, N.J., formerly editor of the "American Druggist," was one of the veterans of '98 who were honoured at the "silver jubilee" of the National Association of Retail Druggists' "old home week," held at Boston on September 25. Mr. Keenan is now connected with the Lehn & Fink laboratories, Bloomfield, New Jersey. Since this note was prepared, we have received from a correspondent (15/10) a cutting sent by Mr. Keenan from the "Boston Evening Transcript" of September 22, comprising an illustrated account of the oldest drug store in Boston—that of Thomas Hollis & Co., founded in 1821.

Councillor John Hague, chemist and druggist, High Street, St. Botolph's, Lincoln, chairman of the East Midlands Group Executive of the Retail Pharmacists' Union, was unanimously chosen as Mayor of Lincoln for the year 1923-24 at a meeting of the City Council held on October 10. Mr. Hague comes of a family resident in Lincoln for many generations past. He served his apprenticeship in the city to an uncle, Mr. Harston, and qualified in 1894. Returning, he took over his uncle's business, and in the intervening years has put in a large and varied amount of public work. Mr. Hague has been a member of the City Council for ten years, and has been returned for the Witham ward by the largest majority ever recorded at a Lincoln municipal election. In addition to serving on most of the Council's committees, he is secretary of the Lincoln Chemists' Association, and a member of the local Insurance Committee. Interested in literature, art and sport—at one time he was a noted breeder of bulldogs—Mr. Hague is an all-round man, and his election to the highest civic office is a matter for congratulation alike to himself and his fellow-citizens. Mr. and Mrs. Hague, who have two daughters, celebrated their silver wedding last year.



Mr. John Hague

Deaths

Baxter.—At Beechlea, Talbot Street, Grangemouth, on October 2, Mr. John Baxter, aged seventy. Mr. Baxter, who was a native of Bannockburn, had been associated in business with his brother, the late Mr. James Baxter, chemist and druggist, Grangemouth, for forty years.

Bell.—At 1 Lindow Road, Old Trafford, on October 16, Ellen Mattinson, the dearly beloved wife of Mr. Joseph Bell, chemist and druggist, Manchester.

Norman.—At Leighton Dene, Godalming, on October 6, Alice Elizabeth, the beloved wife of Mr. Valentine Norman, chemist and druggist.

Sumner.—At Oxted, on October 17, after a few hours' life, Frances Mary, the daughter of Mr. James S. Sumner, chemist and druggist.

Welton.—At 4 Bishop Street, Coventry, on October 8, Mary, beloved wife of Mr. Henry Welton, M.P.S., aged seventy-nine.

Trade Notes

SHOP-WINDOW ATTRACTION.—Livermore & Knight, Ltd., 181 Fleet Street, London, E.C., supply a novel revolving shade for a shop-window. It is worked by the waste heat from an electric light bulb.

DRUGGISTS' SUNDRIES.—The Direct Medico Supply Co., Ltd., 3 Hanover Court, Moor Lane, London, E.C.2, will send a copy of their illustrated list of druggists' sundries on receipt of a postcard request.

NATURAL MINERAL WATERS.—John W. Royle, Ltd., 67 Charlotte Street, London, W.1, have issued a new price-list of natural mineral waters. The company execute all orders within twenty-four hours.

COVERS for hot-water bottles are a speciality of Mr. James Bennett, 42 Newgate Street, London, E.C.1. Mr. Bennett invites sample orders so that he can show the style and range of colours which he can supply.

A LAVENDER WATER RHAPSODY occupies part of the advertising space in this issue of W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E.8. The letter and poem refer to Potter & Moore's Mitcham lavender water.

ELECTRO-MEDICAL APPARATUS.—Medical Supply Association, Ltd., 167-185 Gray's Inn Road, London, W.C.1, devote their advertisement to a selection of electro-medical apparatus, for the sale of which chemists are the appropriate traders.

"THE BUSINESS WORLD" is the title of a booklet issued by F. W. Berk & Co., Ltd., 1 Fenchurch Avenue, London, E.C.3. The booklet contains a well-illustrated account of the ports and trade centres of the British Empire, and at the end a concise article describing Messrs. Berk's business as chemical manufacturers.

BRAZILIAN CENTENARY EXHIBITION AWARDS.—Notification has been received by Baiss Brothers & Co., Ltd., 174-175 Grange Road, Bermondsey, London, S.E.1, that they have been awarded two gold and two silver medals for their exhibit this year at Rio. The Erasmic Co., Ltd., Warrington, have also received awards in this exhibition.

PHOTOGRAPHIC CHRISTMAS CARDS.—In addition to the photographic Christmas cards, referred to in the *C. & D.*, October 6, p. 478, Houghtons, Ltd., are also offering the "Ensign" autographic mask for printing titles at one and the same time as the photograph. Suitable mottoes are supplied, and further greetings can be made by means of carbon paper, several pieces of which are included.

ESSENTIAL OILS PRICE LIST.—The price list of the Etablissements Bernard-Escoffier Fils, Grasse, France, contains a full range of the essential oils manufactured by this firm, as well as aromatic and synthetic chemicals, floral waters, etc. The sole agents for Great Britain and Ireland are Dick, Coates & Co., 41 Great Tower Street, London, E.C.3.

RUBBER EYE-BATH.—Grimes & Co., 39 Craven Road, Lancaster Gate, London, W.2, advertise in this issue a new patent rubber eye-bath. The eye-bath is made in red- or blue-coloured rubber and is shaped to fit the eye-socket perfectly. The eye-bath, which offers several advantages over one made of glass, retails at 1s. 6d., and is obtainable direct or through wholesale houses.

TRADER'S COMPREHENSIVE POLICY.—Benton, Churchill & Co., 147 Leadenhall Street, London, E.C., who specialise in wholesale druggists' and retail chemists' insurances, send us a copy of the Lloyd's trader's comprehensive policy they issue. This includes insurance against fire, lightning, explosion, burst water pipes, flood, storm, tempest, frost, aircraft damage, war, riots, strikes, civil commotion and malicious damage, burglary and housebreaking, loss of profits following fire, workmen's compensation, horse-driver's indemnity, public liability, plate glass and loss of rent following fire. Transfer of existing policies into a trader's comprehensive policy can be effected without loss by an adjustment of the first premium. The advantages of such a policy include besides its comprehensiveness, the convenience of the renewal of all the risks in one premium and on one date. The firm are also prepared to effect insurances at Lloyd's against any risks incidental to the drug trade.

"KELLY'S DIRECTORY OF THE CHEMICAL INDUSTRIES, 1923," which has just been issued (pp. xxxi + 903, 30s. post free: 186 Strand, London, W.C.2), is the sixteenth edition of this well-known work of reference. "The continued use of out-of-date directories," the publishers remark, "is unprogressive and wasteful"; and Messrs. Kelly have hit upon the happy idea of sending out a specimen page of the previous edition as corrected by them, showing no less than 41 per cent. of alterations. The new volume includes the customary well-arranged lists of wholesale and retail chemists, druggists' sundriesmen, dentists, veterinary surgeons, surgical-instrument manufacturers, photographic dealers, and so forth, together with a concise selection of names and manufacturers of proprietaries. The large increase in the number of registered dentists brought about by the Dentists Act, 1921, has resulted in a considerable expansion of this section in the case of cities and towns with a large population; and this is a good instance of the advantage of possessing the latest issue of Messrs. Kelly's directory.

SYNTHETIC MENTHOL.—Our readers will have noted the enterprise of Howards & Sons, Ltd., Ilford, in having brought the manufacture of synthetic menthol to a commercial issue. At the present time, when the price of natural menthol has soared to unheard of heights, large users of menthol such as tooth-paste manufacturers are forced to take into consideration the possibilities of the synthetic product. With this in view we have been subjecting Howards' menthol to a series of tests. It differs from the Japanese menthol in form only; the latter is in detached crystals, easily weighed, while the former is in semi-solid massed crystals, somewhat difficult to weigh or measure. However, in the uses of menthol, this defect is easily overcome. When a small quantity of each is liquefied by heat in test tubes, on cooling, the synthetic remains liquid, but the Japanese solidifies again. By its nature, Howards' menthol is more soluble in all the various fluids, such as olive oil, used as vehicles. It liquefies camphor and thymol equally well. In odour, local effect, or in vaporising properties, there appears no difference. When dilutions of natural and synthetic menthol of a strength of 1 in 50,000 are compared there is no perceptible difference to the taste. A systematic examination by Dr. G. V. Anrep as to the toxicity shows the synthetic product to be 2½ to 3 times as toxic, though this is probably due to the greater ease in absorption. For all unofficial preparations synthetic menthol can well replace the Japanese article, the price of which is now prohibitive.

Information Department

INFORMATION WANTED

D/1610. Agar-Agar biscuits
M/1810. Ascarite
S/1010. Fossilite
J/1610. Glass stoppers with cork rjug for bottles
R/1710. "Hygienic" formalin disinfecting lamp
M/810. "Isofried" vacuum flask
H/1010. Narcissus du Nord perfume
P/1210. Palethorpe's gelatin pill coater
E/910. Paté Sphiux French nail polish
A/1610. Sucker combs
R/1710. "Thermicon" radiant heaters
D/1210. Von Heyden's Xeroform (London supply)

INFORMATION SUPPLIED

Astouin. W/610
Barry's tricopherous. B/310
Bon Accord nasal douches. R/219
Cofluxol. S/259
Collosan. C/610.
Comos for baldness. B/910
Corbett's showcases. R/810
Cowan's vaccination shields. M/210
Crusader hot-water bottles. S/610
Deodel perfumery products. H/810
Fawcett's barley meal
Heads and figures as puff holders. W/610
Hinde's hair dye. D/610
Kalamax. B/299
Klip-Klip manicure sets. C/289
Lactobacilline. T/410
Little's Oriental balm. D/29
Lixall tablets. E/210
Mechanical advertisiug devices. F/210
Mirion colloidal iodine. H/810
Mixing machines. B/310
Peptone treatment for asthma. P/510
Peptoue Witte. C/410
Prophylactic tooth brushes. L/210
Radiogen. W/510
Septovince. B/299
Soldis. B/410
Spahlinger serum. D/299
Speton tablets. D/210
Thelygan. L/289
Toxol. W/810
Ungual. S/29
Valsol. F/610
Wesco capsules. H/310

Observations and Reflections

By Xrayser II.

Psychotherapy,

it seems, has taken its place among recognised sciences, but Dr. Brown, in the lecture to the Association of Women Pharmacists, was careful to emphasise the fact that it is as yet only in its infancy, an infancy, I gather from his opening remarks, something like that of Richard III, which Shakespeare describes as "tetchy and wayward." Twenty years ago the term was used almost exclusively of a sect of American faith healers, who were looked at askance by most of those who claimed to be in the stricter sense men of science. Even yet it appears that in practice psychotherapy is mainly empirical, and if it really is the case that it needs no qualification beyond skill and experience, which seems to be implied in what was said by Dr. Brown in answer to questions, one can hardly see how it can be said to have a stable scientific basis. A knowledge of mental diseases is indeed said to be necessary as a qualification, but unless "mental disease" here connotes disease in general this does not carry us very far. It is convenient to distinguish between mental and physical disease, but is it scientific?

The Threat

(or promise) of a Royal Commission to inquire into the whole question of National Health Insurance is of itself a sufficient reason why we should, if necessary, make a little sacrifice in order to retain our place in the present scheme. A medical service that takes no account of pharmacy is unthinkable; but it is not only possible, but likely, that if we refuse service now we shall be ignored in any new scheme that may be adopted. The fact that we are the only legalised body in the country that exists simply for the practice of pharmacy would go for nothing; we should be judged to have ruled ourselves out of any practicable arrangement, or, at least, to have forfeited all right to consideration. But while we have a vested interest in the question, and continue to show a loyal regard for the exigencies of practical politics, we cannot be ignored, but shall have an irresistible claim for consideration. This Royal Commission is, of course, as yet only problematical, but the ever-recurring difficulty between the doctors and the approved societies, and the widespread latent dissatisfaction with things as they are, make its realisation only too likely.

Will the Doctors Strike?

I cannot think it. Such an act would be entirely out of harmony with the best traditions of the profession, and would deprive them of the sympathy of the public in their dispute with the approved societies. The fact that it is between these two parties, and not primarily between the doctors and the Government, that the dispute rages makes the demand of the former for arbitration difficult to meet. Virtually the Government have already arbitrated. The doctors asked for a certain fee, the societies offering a much lower one; the Government propose a figure about midway between the two. Further arbitration would be between the doctors and the Government, which has thus already assumed the *rôle* of arbitrator; the societies, which are as dissatisfied as the doctors with the Government's proposal, would be no party to it and in no sense bound by it. It is, moreover, difficult to see how the Government could consent to such a course. The demand of the doctors for something more than the 8s. 6d. proposed may be well- or ill-founded—personally I regard it as in the circumstances unreasonable—but since even this is more than the societies will agree to, the British Medical Association would do well to climb down to the Government figure and throw upon the societies the onus of wrecking the Insurance scheme. We may feel pretty well assured that they would not do it. Whether the doctors demand too much or not, it is certain that the societies offer too little, and our sympathy will be with the doctors rather than with them.

In Reply to "Œdipus,"

my remark that it would be absurd to refuse any tolerable terms for Insurance work was made upon the assumption (which is, I think, well founded) that as a body we do not wish to relinquish the service. I am not prepared to say what terms are tolerable and what are not. As "Œdipus" says, the conditions are not everywhere the same, and what is tolerable in one place might not be so in another; but, presuming that chemists are not fools, I should say that any terms for which a general acceptance could be obtained could hardly be described as intolerable. The principle of the minimum price works here. We do not like minimum prices, but we manage to carry on in spite of them. We have found a fivepenny fee tolerable, and it is just possible we could subsist on a fourpence-halfpenny one. I don't say that if my own case only were to count with me I would accept it; I don't counsel its acceptance by our representatives; but before refusing any reduction of present terms I should want to be better informed as to the actual cost of the service and its value to us than I am. I confess that neither the indefinite grumblings we are so familiar with nor abstract reasonings like those of "Œdipus" have much weight with me. The proof of the pudding is in the eating. It may not be quite what we like, or what we deserve; but while we continue to eat it the presumption is that it is not altogether distasteful, and that we get some degree of nourishment from it. Your correspondent "Past and Present" supplies me with an argument in support of my attitude: Insurance dispensing is not so exigent as it is sometimes made to appear; the decrease of the demand made upon our time and skill, taken in conjunction with the decrease (small as it is) in the cost of living, should weigh with us in the consideration of any terms that may be offered.

Quinine

is styled by Mr. H. S. Abrahamson a "natural Dutch monopoly." But why "natural," unless, indeed, it is simply meant that naturally the spoils fall to those who took the most pains to secure them? In this sense the epithet may be rightly used, but hardly in any other. The Dutch were, I believe, the first to attempt the acclimatisation of the cinchona in their Eastern dependencies, but their earlier experiments were not very successful—less so, apparently, than our own—and when Flückiger and Hanbury wrote in 1874 they clearly regarded our plantations in India and Burma as more promising than those in Java. They note, it is true, the improvement that had taken place in the latter, and the labours of the eminent chemist De Vry in connection with the industry, but up till then we do not seem to have been lacking in enterprise on our part. How is it that we have fallen behind? I remember the time when the only quinine we would look at was English in make.

Cancer

has at different times been attributed to so many different causes that one is not predisposed to attach much importance to the latest theory—namely, that it is induced by a too exclusive flesh diet. This is putting it mildly, for we are told by at least one believer that the only way of safety for some people is to abstain from animal food altogether and live on fruit and vegetables; we must eat our cabbage without bacon. I see that Sir Clifford Allbutt thinks the cabbage which the ancients esteemed so highly as a medicine was not our garden variety, but the sea-colewort, though he speaks well of the ordinary cabbage as an anti-scorbutic. Both were official with us for a long time, though neither was much in use medicinally for a good while before it was discarded by the College. By *Brassica marina*, however (which was the official name of the sea-colewort), soldanella seems to have been generally understood, a fact which moved Gerard to wrath, for, as he says, "this plant and *Brassica* are no more alike than things which are most unlike." It was not this that our herbalists thought Cato and the Greeks esteemed so highly.

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AN announcement of particular interest to you appears in this issue on page 12.

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Editorial Articles

Insurance Dispensing Terms

I. Introduction

THE contracts which now exist between chemists and Insurance committees for the provision of drugs, medicines and appliances for insured persons will terminate on April 30, 1924: after that date a new contract with, possibly, modified terms will be necessary. Six weeks' notice of any alterations in the terms of service must be given to chemists by Insurance committees, so by March 15, 1924, the new terms should have been agreed upon. There are, therefore, only four clear months between the present date and the date when the new terms must be settled. During the winter months association meetings will be held, and they may be used by pharmacists to discuss among themselves suggestions for modification and improvement in their terms of service. Any official agreement on new terms will naturally be preceded by negotiations between pharmacists' representatives and the Ministry of Health. The Executive of the Retail Pharmacists' Union is, no doubt, alive to the situation, and may be able to produce proposals as soon as the Ministry has effected a settlement with medical practitioners. But time passes very quickly, and pharmacists are only too well aware of the results of delay. They have suffered in the past because consideration of their case has been postponed until inadequate time has remained for full and careful discussion of the questions involved. In consequence of this, hurried decisions have been taken which perhaps would have been modified in different conditions. Chemists' representatives have not always been to blame for this; but, bearing their past experience in mind, chemists should insist that any fresh proposals should be made known to them early, so that everyone in the Insurance dispensing service shall be able quietly to reconsider his position and decide as to his future action. We propose, in a series of articles, to examine the question of the chemists' terms of service at present in force. We shall consider in detail the provisions of the drug tariff, both as regards the methods adopted for pricing ingredients and the scale of dispensing fees. We shall also deal with some of the other aspects of the service which chemists render under their contracts. The Minister of Health (Sir William Joynson-Hicks) has foreshadowed an inquiry by a Royal Commission into the whole question of National Health Insurance (*C. & D.*, October 13, p. 510). The pharmaceutical service, in common with all other branches of the work, will come under review, with the result that the position of chemists as Insurance dispensers may be considerably affected. During the course of this inquiry it may be possible to reopen the question of the drug tariff. This appears to be an important point for chemists to consider. Without some radical alteration in the method by which the chemists' services are remunerated, it does not seem likely that their position under the Insurance

scheme will be greatly improved; it may, indeed, become even less favourable than it is at present. Insurance committees, which administer medical benefit, are guided in their procedure by the Medical Benefit Regulations. Part 2 of these Regulations (1923) deals with matters of general administration, and the provisions of Sections 6 and 7 are as follows :—

For the purpose of enabling arrangements to be made for the supply of drugs and appliances to insured persons the Minister of Health shall cause to be prepared a list (referred to as the Drug Tariff) of the prices on the basis of which the sums to be paid for drugs and appliances are to be calculated. The Insurance Committee, after consultation with the Pharmaceutical Committee, shall prepare a statement of the terms upon which it is proposed to invite chemists to undertake the supply of drugs and appliances. The terms of service shall include the Drug Tariff.

It will thus be seen that the drug tariff is, to the chemist at least, the most important item in his contract with the Insurance Committee. The remuneration he receives for the prescriptions he dispenses depends upon the prices quoted in the tariff and the principles which are embodied in it. It is necessary, therefore, that the chemist should have a clear idea of the principles upon which this tariff has been constructed and how these principles are interpreted in the actual pricing of his prescriptions. The drug tariff has commercialised the whole bargain which chemists had made with the Government : every portion of the service rendered under the chemists' contract has been assessed with mathematical precision in terms of tenths of a penny. It may be quite right for the State to drive as hard a bargain as possible with its servants in the interests of the taxpayer; but it is difficult to escape from the conviction that something has been lost to the profession by reason of the pharmacists' service under the Insurance Acts having been almost entirely reduced to questions of "nicely calculated less or more."

Fluctuations in Mercury

DEALING with the general position of mercury, especially in regard to the renewed growth of production in Spain and Italy, in our issues of August 18 and 25 last, we suggested the possibility of further weakness. At that time the London spot prices were fluctuating between £9 5s. and £9 per bottle. The market since then dropped to about £8 10s., but within the last few weeks surface appearances have been rather curious, incidental to the sudden sharp spurt which took place towards the end of last month, when the spot quotation was raised to £9 10s., or fully £1 per bottle from the recent lowest. There has, however, been no trustworthy information to adequately explain the modified aspect of the market, although there is reason to believe that the available supplies at this end have been reduced appreciably, partly on account of the more restricted imports, which for the past month were exceedingly small, only 593 bottles, or less than one-half the returns for the same month last year. As we mentioned last week, the recent advance was apparently chiefly due to the increased reserve shown by Spanish shippers, whose offers, indeed, were at least temporarily withdrawn, as indicated by advices received by home importers, who thus were induced to raise their price on the spot. This change of atttitude on the part of the Spanish producers, which in some quarters has been attributed to the political upheaval in Spain, would, therefore, fairly well explain what has happened, but it should prove merely of a transient character. With a very full production going on in Spain and Italy, of which we gave particulars in our issue of August 25 (page 304), and the fact that stocks at the mines have been accumulating, to some extent under the more restricted world's demand, it is perfectly obvious that the course of the market hinges chiefly on the extent to which the outlet may be stimulated by the competitive first-hand terms quoted between Spain and Italy. The renewed sagging tendency of spot quotations which became manifest early last week is suggestive of the disposition of Italian producers to make concessions, and thus to undercut their Spanish competitors. At the same time, of course, the cost of import into this country is apt to vary according to the rates of exchange. This presumably had a little to do with the recent firmness, although the market has been at no time anything like active since prices were first raised. So far as can be ascertained, mercury is now selling on the spot at prices at which it could hardly be replaced by new purchases from producers allowing for full costs landed on this side, from which it might be assumed that the market should display some resistance. But this does not necessarily mean that prices will not ease again further in the event of the Spanish mines cutting their terms, as happened before, if Italian producers make a fresh move in that direction. Present industrial conditions still leave much to be desired, and this, together with the persistent political incubus arising from the Ruhr problem, are restraining factors on the development of the demand, so that partly for financial reasons or otherwise producers would hardly consider it a wise policy to allow their unsold stocks to accumulate unduly. Should the demand in the United States become more active, and thus call for freer importations, the position of Italian producers, whose outlet in that country has been fairly regular of late years, would doubtless become strengthened, and thus help in protecting the market against the possibility of further weakness. Our imports for last month and the total so far this year, with comparisons for the same period in the previous year, were as follows:—

	1923.	1922.
September (in bottles) ...	593	1,204
January-September	27,248	9,392

It will be seen, therefore, that although receipts for last month were abnormally light, the total returns for the nine months show a very substantial excess over the unusually restricted supplies that were accounted for in the same period of 1922. It must, however, be remembered that the bulk of last year's imports of only 19,735 bottles was re-exported, and that the surplus stocks carried into the earlier part of this year were very small, which thus necessitated increased importations. Roughly, one-half of this year's receipts from abroad have been re-exported, the greater part of which went to the Eastern markets, including Japan. There is at any rate no unwieldy surplus in this market, but any increase in the demand should be easily met from the surplus nursed by Continental producers. It is interesting to note that the production of mercury at the Almedan mines during the first eight months of this year amounted to 23,585 bottles. The sales during this period totalled 35,988, leaving a stock on hand at September 1 of 16,545 bottles. The value of sales was 9,457,401 pesetas, representing an average price of 274.07 pesetas per bottle.

The Intoxicating Liquor Act (Northern Ireland), 1923

THE Intoxicating Liquor Act (Northern Ireland), 1923, contains some important innovations on the licensing law of the area to which it applies—the six northern counties of Ireland. Some of its provisions, such as those which

deal with methylated spirits and the sale of wine by retail "off," are of special concern to chemists and druggists within the area. Section 1 sets out with a prohibition of the sale or exposing for sale of intoxicating liquor of any kind on Sunday or Christmas Day, the only exception allowed being in the case of sale in a hotel to a guest staying there as part of an ordinary meal supplied to him. Section 2 is of special interest to chemists who hold wine "off" licences. After September 30, 1923—subject to a respite in some cases to March 31, 1924—no off-licence for sale by retail can be granted or renewed in respect of any premises in which or in any part of which any trade other than the sale of intoxicating liquor or of table-waters is carried on. The carrying on of one of the banned trades even on premises adjoining is made by the section a ground of objection to the renewal of a licence. This, it may be remarked, does not apply to the special spirit licence granted to a manufacturing or wholesale chemist and druggist for the sale of spirits for medical and scientific purposes under Section 9 of the Finance Act, 1911. Section 2 also provides for the refusal to renew an off licence on the ground of redundancy; but where such renewal is refused, or is refused by reason of the inability of the licensee to comply with the requirements of the Act as to keeping the part of the premises used for the sale of intoxicating liquor separate from that on which any other trade is carried on, compensation is payable to the persons interested in the premises. To provide this a Claims Fund is established from the proceeds of an annual levy on all licensed premises, except premises for which special medicated wine licence is in force, or theatres, at maximum rates from £1 10s. to £60, according to the annual value of the premises and whether situate in Belfast or elsewhere in Northern Ireland. The compensation is not to exceed five times the difference in the annual value of the premises when licensed, and their value when the licence is taken away, together with an allowance for depreciation in the value of the fixtures and fittings, and not more than five times the annual assessment to income-tax of the profits made from the sale of intoxicating liquor. Section 4 imposes important restrictions on the sale of methylated spirits and of methylated ether. The licence to retail can in future only be obtained by a person who holds a certificate granted to him by a magistrate's court of the district. And a retailer may not sell to any person under the age of eighteen years, or to a person who is unknown to him, unless such person is introduced by some one who is known to the retailer. If the sale is of less than a gallon the seller has to enter in a sales book the following particulars:—(*a*) Date of sale; (*b*) name and address of purchaser, and also of his introducer, with the occupation of the latter; (*c*) quantity sold; and (*d*) the purpose for which the spirits are required. This entry must be signed by the purchaser and his introducer (if any). The bottle or other vessel containing the spirits has to be labelled with the name and address of the seller. Penalties are imposed by the section upon any one who drinks or connives at another drinking methylated spirits or ether, and by a subsequent section (8) a conviction for an irregular sale of methylated spirits involves forfeiture of the retailer's licence. Section 5 extends from 16 to 18 years the prohibition of the sale of intoxicating liquor to children. Section 6 provides for the structural separation of the part of premises used for the sale of intoxicating liquor for consumption on from any other part of the premises. Section 7, with the corresponding schedule, imposes restrictions on registered clubs. Section 8 provides penalties, and section 11 regulates the procedure under which they may be recovered or enforced. Section 9 imposes important restrictions on the grant of new licences, whether "on" or "off." In future these will be granted only where justified by an increase in the population served, and commonly only subject to the surrender of existing licences. Section 12 is the only other portion of the Act which merits attention. This exempts from the operation of the Act not only the special licence granted to a chemist under the Finance Act, 1911, but also the sale of medicated spirits or spirits or spirituous liquor made up in medicine by a duly qualified medical practitioner, or a duly registered pharmaceutical chemist or chemist and druggist. The law on this subject as set out in the *C. & D. Diary*, therefore, continues unaltered. This clause also makes provision for the grant to a registered chemist or chemist and druggist of a special wine "off" by retail licence subject to the following conditions:—(i) No wine to be sold under it except on the order or prescription of a duly qualified medical practitioner. (ii) The prescription must be produced by the purchaser before such sale, and retained by the chemist, and sales are not to be made upon it on more occasions than are stated by the practitioner issuing it. (iii) On the occasion of any sale the prescription must be produced by the purchaser. Incidentally, we may point out that we do not know how a "repeat" prescription which is retained by the chemist under (ii) can be produced to him again on a subsequent purchase as required by condition (iii). The second schedule of the Act contains a restriction of the hours between which intoxicating liquor for consumption on or off may be sold to ten in the morning and nine at night, except that in a town of more than five thousand inhabitants the hour may be ten at night instead of nine.

The *C. & D.* Retail Price List

Our monthly contemporary, "The Script," in the October number, has a timely article dealing with unremunerative retail prices of drugs and gives some examples from actual dealings. It is certain that not only do some chemists lose a lot of money by not following price changes, but that there are still some who neglect the precaution to consult trustworthy price lists. On this point "The Script" states:—

> The London list which was suspended fifteen months ago set a very high standard, and we are pleased to see The Chemist & Druggist has maintained this high standard in their list. We notice that a persistent re-costing of all lines is progressively taking place, and this adds to the list's usefulness in the service of pharmacies. Pricing of anything should never be upon what a few individuals think, as this, by its nature, is the root cause of cutting. A close examination of all average costs must needs be made and a definite but elastic system be employed. We need hardly say that the idea of a re-issue of the London list, which we intended if the occasion arose, is not necessary, in our opinion, owing to the independent and authoritative way in which the *C. & D.* list is produced and its particularly accurate way of costing. . . . During the last three months there have been nearly 500 changes in prices, the majority upwards, but close examination of price-lists reveals only one, The Chemist & Druggist, which has reflected these enormous changes.

It is gratifying to know that our efforts to produce a good list are appreciated. Not a day passes but that we receive a letter or a call from subscribers who want to tell us how useful the list is to them. As we write a postcard is before us from a Brussels chemist who uses the list for pricing prescriptions for his English customers. The chemist is safe in using an authoritative list, and can always satisfy his customer as to the justness of his charges.

The Russian Curriculum

RECENT news from Russia sounds very different from those almost incredible reports received a couple of years ago, and conditions would appear to be assuming a more normal complexion. This applies also to pharmacy, and the Soviet decree establishing the principle of leasing the now nationalised businesses to private individuals (*C. & D.*, February 24, p. 270), while not Utopian according to our standards of pursuing our calling—due doubtless to our ignorance of what is really good for us—marks a decided advance, shall we say "westernwards," on the conditions depicted by a Petrograd pharmacist in THE CHEMIST & DRUGGIST, II, 1920, index folio 1627. In those hectic days the non-professional personnel, the charwomen and the bottle washers, being regarded as "politically sound," reaped the reward of their convictions by becoming, if so inclined, full-fledged pharmacists after a six week's course of, doubtless, intensive training. Those days now belong to the past, for the new curriculum requires the future pharmacist to undergo a very comprehensive course of studies. The pre-war system of apprenticeship followed by a course of university study has been definitely thrown overboard. Soviet Russia requires her pharmacists on entering the profession to possess a standard of education represented approximately by the matriculation certificate, whereupon the student spends two years in the State School of Pharmacy, during which he receives instruction in the rudiments of the sciences connected with pharmacy. At the same time he learns the practice of pharmacy in a specially designated Government pharmacy, which serves as an instruction centre. This course of two years' training is followed by three years' attendance at a State university. The university curriculum is not confined to a study of chemistry, pharmacy and cognate branches of knowledge; it includes such subjects as economics, politics and statecraft, while the perfect command of at least one foreign language is also demanded. Five years' hard study to become a pharmacist, to be able to lease a business fettered by a host of prohibitions! Really Russia is becoming hopelessly *bourgeois*, almost reactionary.

"Alcoholic" Ceylon Citronella Oil

Attention has previously been drawn in the *C. & D.* to the extraordinary position of Ceylon citronella oil on the London market. Thanks to the unwelcome attention of sophisticators in Ceylon there is estimated to be a quantity of between 40 and 50 tons of oil lying in London which has been held up for payment of duty on the alcohol that is present in varying percentages as an adulterant. Not only are the shippers faced with the loss of money on the oil, but, in addition, the Customs seek to impose a fine, owing to the non-declaration of alcohol. It appears, however, that no definite ruling has been given by the Authorities with regard to the oil, and the whole situation is very much involved. If as has been stated for some time speculators have been operating in citronella oil there is no doubt that they have suffered considerable loss, especially during the past few months. The New York market, which was called upon to make good the shortage of usual quality oil in London has since been found to have received a similarly treated article, the adulteration with alcohol ranging up to 40 per cent. Meantime there is the urgent need of a new and easily applied test. Mr. E. J. Parry recently indicated (*C. & D.*, September 15, p. 390) that the Schimmel test has pointed the way to adulterate further an adulterated article. The difficulty is to find a test which is so easily applied, and shippers would be very glad to hear of such an alternative test. Java oil is already being used up to the full extent of its production, and it is extremely unfortunate that so important an oil as Ceylon citronella should be, for a time at least, under a cloud. The present is an opportune time to have the whole question of marketing an adulterated oil as the normal product reconsidered. Previous attempts to market a pure Ceylon oil have not met with much success, owing to the slightly higher price that was wanted. But the cost is high enough now to warrant the supply of a pure oil, and consumers in whose hands the final decision lies, should give every assistance in this direction.

Pharmacists and the Prison Service

THE committee which was appointed by the Home Secretary, under the chairmanship of Lord Stanhope, to inquire into the pay of prison officers has completed its inquiry and published its report. It recommends that prison pharmacists should receive a basic scale of 48s. weekly, rising by 2s. to 68s., and then, after five years, to 70s. The lodging allowance of 10s. and allowance in lieu of uniform, 3s., are to be continued. The existing scale is from 45s. to 69s., so that the net gain will be 1s. a week, if these findings are acted upon. We observe from the report that a "hospital principal officer," who possesses a limited knowledge of compounding gained in the service, will be in receipt at his maximum salary of 66s. 6d. —3s. 6d. less than the trained man at his best rate of pay. This class of officer is also eligible for promotion to the rank of chief officer at a salary of 90s. The pharmacist is eligible for nothing. Medical officers have been recommended for increases of from £50 to £100 per annum, governors, chaplains and stewards in similar proportions. By the proposed changes pharmacists sink to a lower level in comparison than they have previously held, none of the many arguments advanced on their behalf having, apparently, been listened to. It is to be understood that all the salaries referred to are subject to the prevailing cost of living bonus, an augmentation of about 57 per cent.

A Sense of Proportion

PRESS cuttings, like the seismograph, sometimes indicate that commotions have arisen in remote and perhaps unsuspected quarters. In this way we have learned that aspirin has lately been causing tremors among the intellects—or the emotions—at the disposal of certain lay papers. We pass over several pretty stories for the sake of examining, in the cold light of fact, a statement made by the anonymous "head of one of the biggest firms of chemists in London," in the "Pall Mall Gazette and Globe," of October 9. There is a certain ironical amusement in the spectacle of the organ associated with Thackeray's "written by gentlemen for gentlemen" lending itself to sensation-mongering: in this instance, it appears to have "played up" to the "authority" in question by reporting "two deaths this year from indiscriminate use of the drug." His comment was:—

> Your estimate is too low. I would put it between 25 to 50. I would suspect many of those deaths which the doctor says are due to heart failure.

Since aspirin was introduced into practice, rather more than twenty years ago, one death from heart failure accelerated by an overdose of it has been reported in England, one death (also accidental) in Ireland, and none in Scotland: in other words, the Government statistics show an almost blank sheet. Facts, apparently, have no interest for people who "suspect" that deaths certified as due to one cause are really due to another: once launched on this sport, it would be quite easy to "suspect," for example, that many of the deaths attributed to old age are really attributable to an unfortunate habit of sipping chemical food after meals. Oddly enough, the "Pall Mall," in a subsequent interview, quoted a Wigmore Street specialist as saying:—

> The best thing for any man or woman who suffers from recurring headaches is always to ask a reliable chemist for a draught. Then they achieve relief from pain, and are free from all drugs in their system.

It is pleasant to find a Daniel come to judgment; this broad kind of view fairly represents, we trust, the balance of medical opinion. Answering questions after a lecture on "Drug Habits," at an evening meeting of the Pharmaceutical Society two years ago, Professor W. E. Dixon remarked that he did not regard the use of aspirin as any more addiction to a drug than the use of castor oil; and Sir William Willcox, only the other day, uttered the significant warning that too hasty legislation might do more harm than good.

British Empire Exhibition

THE general arrangement of the chemical section of the British Empire Exhibition (1924) was outlined in our issue of October 13 (p. 523); other details have been settled since, and the section promises to be ready in excellent time for the opening next April. The division adopted for the exhibits is: (1) Heavy chemicals; (2) dyestuffs and intermediates; (3) fine chemicals; (4) soap and perfumery; (5) scientific. With a few possible additions, the list of exhibitors is as follows:—

Ajax Aniline Dye Manfg. Co., Ltd.
Albright & Wilson, Ltd.
Stafford Allen & Sons, Ltd.
J. & E. Atkinson, Ltd.
F. W. Berk & Co., Ltd.
A. Boake Roberts & Co., Ltd.
Boots Pure Drug Co., Ltd.
J. C. Bottomley & Emerson, Ltd.
British Alizarine Co., Ltd.
British Cyanides Co., Ltd.
The British Drug Houses, Ltd.
British Dyestuffs Corporation, Ltd.
The British Soap Co.
Brunner, Mond & Co., Ltd.
Bryant & May, Ltd.
Burgoyne, Burbidges & Co., Ltd.
Burroughs Wellcome & Co.
Burt, Boulton & Haywood, Ltd.
W. J. Bush & Co., Ltd.
Carnegie Brothers.
Clayton Aniline Co., Ltd.
J. M. Collett & Co., Ltd.
The Colne Vale Dye and Chemical Co., Ltd.
Joseph Crosfield & Sons, Ltd.
Cussons, Sons & Co., Ltd.
James H. Dennis & Co., Ltd.
Joseph Dixon Crucible Co.
Duncan, Flockhart & Co.
William Edge & Sons, Ltd.
The Erasmic Co., Ltd.
Fairy Dyes, Ltd.
Gas Light and Coke Co.
D. & W. Gibbs, Ltd.
W. Gossage & Sons, Ltd.
The Graesser - Monsanto Chemical Works, Ltd.
Grays Dyes and Colours, Ltd.
Herbert Green & Co., Ltd.
J. Grossmith & Sons, Ltd
Grout & Co., Ltd.
Hardman & Holden, Ltd.
C. R. Harker, Stagg & Morgan, Ltd.
Hickson & Partners, Ltd.
Thomas Hill-Jones, Ltd.
L. B. Holliday & Co., Ltd.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Robert Ingham, Clark & Co., Ltd.
Jeyes' Sanitary Compounds Co., Ltd.
Johnson & Sons (Manufacturing Chemists), Ltd.
H. & T. Kirby & Co., Ltd.
B. Laporte, Ltd.
The Leeds and Bradford Boiler Co., Ltd.
Lever Brothers, Ltd.
T. Lyle & Sons.
McDougall & Robertson, Ltd.
J. F. Macfarlan & Co.
May & Baker, Ltd.
The Midland Tar Distillers.
Murgatroyd's Salt Works, Ltd.
Naylor Brothers (London), Ltd.
Newton, Chambers & Co., Ltd.
Orr's Zinc White, Ltd.
J. C. Oxley's Dyes & Chemicals, Ltd.
A. & F. Pears, Ltd
Price's Patent Candle Co., Ltd.
W. Ransom & Son, Ltd.
J. J. Rigby, Ltd.
Eugene Rimmel, Ltd.
J. L. Rose.
The Salt Union, Ltd.
Scottish Dyes, Ltd.
Silk's Toilet Co.
T. & H. Smith, Ltd.
The South Metropolitan Gas Co.
Peter Spence & Sons, Ltd.
Spencer Chapman & Messel, Ltd.
J. & E. Sturge, Ltd.
Taylor Brothers & Cox, Ltd.
"Thamar."
Thomas Tyrer & Co., Ltd.
The United Alkali Co., Ltd.
The Washington Chemical Co., Ltd.
Joseph Watson & Sons, Ltd.
Whiffen & Sons, Ltd.
J. & J. White, Ltd.
Oliver Wilkins & Co., Ltd.
J. B. Wilkinson.
Williams Brothers & Co.
Yardley & Co., Ltd.
The Zee-Kol Manufacturing Co.

SOME OF THE COMMITTEES

The appointment of the following committees is announced:—

Publication Committee.—Dr. E. F. Armstrong, F.R.S. (chairman), Mr. E. V. Evans (secretary), Professor J. W. Hinchley, Dr. H. Levinstein, Dr. Stephen Miall, Mr. R. B. Pilcher, Dr. Plimmer, Professor J. Thorpe, Mr. W. J. U. Woolcock.

Executive Subcommittee.—Mr. H. Barrett, Mr. Guyton Butler, Mr. E. V. Evans, Mr. G. Gibbs, Mr. C. A. Hill, Mr. E. Linstead, Sir Max Muspratt, Bt., General N. W. Webber, Mr. W. J. U. Woolcock (chairman).

Scientific Committee

Mr. J. Baker	representing	The Society of Chemical Industry
Mr. F. H. Carr	,,	The Society of Chemical Industry
Mr. E. V. Evans	,,	The Society of Chemical Industry
Dr. J. T. Hewitt	,,	The Chemical Society
Mr. J. B. Atkinson	,,	The Society of Dyers and Colourists
Dr. Herbert Levinstein (chairman)	,,	The Society of Chemical Industry
Mr. T. Marns	,,	The Pharmaceutical Society
Dr. Stephen Miall (secretary)	,,	The Federal Council
Mr. E. T. Neathercoat	,,	The Pharmaceutical Society
Mr. R. Pilcher	,,	The Institute of Chemistry
Commander R. E. Stokes Rees	,,	The Institution of Petroleum Technologists
Prof. J. F. Thorpe	,,	The Chemical Society
Prof. J. W. Hinchley	,,	The Institution of Chemical Engineers
Mr. W. J. U. Woolcock		

Bio-chemical Subcommittee.—Dr. Levinstein, in the course of a recent address, said it was desirable that the intimate bearing of bio-chemistry on many of the circumstances of daily life should find an appropriate expression at the Exhibition. The scientific subcommittee of the Chemical Section had appointed a bio-chemical subcommittee, comprising Messrs. J. L. Baker, Dudley, A. Harden, T. A. Henry, Gowland Hopkins and Schryver, and it had been suggested that the exhibits should be arranged under the groups: (1) Vitamins; (2) insulin; (3) standardisation of animal extracts; (4) fermentation, including alcohol, acetone, glycerol, lactic and butyric acids, beer and cider; (5) bread; (6) tannins and leather; (7) nutrition and protein decomposition; (8) cotton; (9) silk; (10) sewage and water; (11) respiration of plants and animals; (12) plant constituents; (13) therapeutics (ergot, digitalis, squill, etc.); (14) glue and gelatin; (15) photographic exhibit of English bio-chemical laboratories.

THE CHEMICAL HALL

The Chemical Hall is remarkably well placed. On arriving by the north entrance (just across the road from Wembley Park Station, Metropolitan Railway), visitors will notice the Palace of Industry, the first building on the right of the main avenue running south to the Stadium: the Chemical Hall is at the north-east corner of this immense structure, possesses three main entrances, and is planned with a sufficiency of 75-foot gangways.

By invitation of Sir Lawrence Weaver, K.B.E., Director of the United Kingdom exhibits, about 150 exhibitors assembled on the afternoon of October 16 at the Hall—at present, of course, consisting of little more than walls and a roof—and, plan in hand, discussed various details with Mr. W. J. Uglow Woolcock, general manager of the Association of British Chemical Manufacturers, and Mr. C. W. Ellis, one of the architects of the Exhibition. After the ground had been covered, Sir Lawrence Weaver conducted the party round the grounds, indicating the sites of conference halls, restaurants, and other features of interest. Tea was served in a temporary building, and at its close Sir Lawrence welcomed his guests and initiated a brief discussion on topics of general interest to them. Mr. Woolcock dealt with several queries that had been submitted to him; the question of awards of merit was voted upon by show of hands, resulting in a decisive majority against the idea of competitive awards. The thanks of the gathering to Sir Lawrence Weaver was passed by acclamation; and, after a final glance over the spacious grounds in the gathering twilight, the visitors left with the assurance that the organisation of the chemical section is proceeding auspiciously.

Testing Dispensing

THE question of accuracy in dispensing has been revived by the publication (Stationery Office, 1s. 6d.) of extracts from the annual report of the Ministry of Health for the year 1922-23—reviewed in our issue of September 8 (p. 346)—together with an abstract of reports from public analysts covering the year 1922. In the spring of this year, it may be remembered, we thoroughly explored the question of charges of inaccuracy, then brought in vague terms against pharmacists, in a series of articles. The Ministry of Health extracts, amounting in all to about 2,000 words, include the sentences showing an increase in "adulteration" of drugs and "inaccuracy" of prescriptions. This was made the occasion of a heading in the "Daily Sketch" of October 15, commencing with the words: "AMAZING ERRORS BY CHEMISTS—ONE PRESCRIPTION OUT OF FIVE ANALYSED INACCURATE—GETTING MORE CARELESS." On the same day, Sir William Glyn-Jones, secretary of the Pharmaceutical Society of Great Britain, sent the following reasoned reply to the editor of the "Daily Sketch":—

SIR,—Apart from some explanation, the extracts which you give from the Annual Report of the Ministry of Health relating to analysis of prescriptions seem startling, and would be very serious if the 429 prescriptions of which 96 were alleged to be inaccurate represented the bulk. Apart from private prescriptions, the same Report states that during the year the total number of Insurance prescriptions dispensed by chemists was about 33,400,000. The 429 are not representative of these millions, owing to the quite proper practice of Insurance Committees making private tests and getting official purchases for purposes of analysis made only from those they have reason, as the result of the private test, to suspect. The degree of inaccuracy found is an important factor which is not disclosed in the statement referred to. The figure 429 does not refer to prosecutions, let alone convictions, and in a large number of the reports the inaccuracy was so small as not to warrant any action. Sir William Willcox, the Home Office adviser, giving evidence in a case in May of this year where 6.5 per cent. deficiency is shown, said there was great difference in the limit of accuracy possible with a chemical balance such as an analyst would use and the ordinary dispensing scale, and demonstrated this by means of apparatus in the court. He added that, taking a commonsense view, the deficiency alleged was within the limits of permissible error. In the case referred to, Sir William said that an analyst might be unable to extract the whole of an alkaloidal salt from solution. Again, when the analyst gives his results in terms of the percentage of the drug in the total mixture, his figures may show a discrepancy when compared with the original prescription. Sir William told the Court that he recognised and acquiesced in the practice of weighing the drug, putting the proper quantity into an ordinary dispensing bottle and filling the bottle with the diluent ordered. What happens is that the doctor orders a given quantity of an active drug to be made up to, say, 6 oz. with a diluent, and orders a sixth part to be taken. The doctor intends that the given quantity of the drug should be put into a 6-oz. medicine bottle and that this should be filled with the diluent, the bottle, as a rule, being marked into six divisions. The bottles are seldom of 6 oz. capacity; they may vary from 5½ to 6½ oz. If the correct amount of the drug has been put in the bottle, the patient gets exactly the dose the doctor ordered and no one is prejudiced; but an analysis set out in terms of percentages would vary in accordance with the size of the bottle. Suggestions from the Society of Public Analysts have this year been made to the Minister dealing with this difficulty and also that of the selection of suitable prescriptions for test purposes. They recommend that:

> The inspector be instructed, prior to dividing the sample into three parts, to mark in the presence of the vendor the height the contents reach in the bottle in which the medicine is originally supplied to him by the vendor. That the bottle so marked be submitted to the analyst in order to enable him to determine the total quantity of medicine supplied.
>
> The analyst and the medical officer of health be both consulted as to the type of prescription it is desirable to use for the purpose of checking the accuracy of dispensing, and that, in the event of any substantial inaccuracies being disclosed by analysis, both these officers be consulted as to the desirability of instituting proceedings.

The machinery provided by the Sale of Food and Drugs Act is unsuitable for testing prescriptions. It is only in recent years that any serious attempt has been made to apply the Act to dispensing, and important amendments in the law are necessary to enable the work to be done in such a way as to provide reliable tests. Until this is done, any deduction from the figures quoted from the Report that about one in five (or anything like that figure) prescriptions dispensed are inaccurate would be quite unjustified.

Yours faithfully,
(Sgd.) WILLIAM S. GLYN-JONES.

A much abbreviated version of this letter appeared in the "Daily Sketch" of October 17. In the "Evening Standard" of October 15 and the "Daily News" of October 16 brief *résumés* of Sir William's views appeared—in the former case under the heading, "MISTAKES MADE BY CHEMISTS," and in the latter as part of an article entitled, "MIXED MEDICINE — INACCURATE INSURANCE PRESCRIPTIONS"; none of these papers, however, referred to the highly important recommendations of the Society of Public Analysts.

Our review of the complete report of the Ministry of Health incidentally called attention to the fact that it was not clear whether the 429 prescriptions were included in the total of 5,863 "drugs." The following table, which is included in the new publication, supplies the solution:—

Drugs	No. of Samples	
	Examined	Found adulterated or not up to standard
Acid, Boric	69	1
,, Citric	66	—
,, Tartaric	115	—
Borax	386	98
Camphorated Oil	437	26
Cream of Tartar	520	26
Epsom Salts	302	1
Friar's Balsam	21	2
Ginger, Ground	661	17
Glycerine	172	2
Linseed (crushed or meal)	61	—
Lozenges, Medicated	62	4
Magnesia and Preparations	110	16
Oil, Castor	147	1
,, Cod Liver	53	—
,, Eucalyptus	45	—
Ointment, Mercurial	71	8
,, Boric	141	3
,, Zinc	130	5
,, Other	33	2
Paregoric	47	—
Pills	12	—
Powders, Gregory	154	15
,, Liquorice Compound	177	1
,, Seidlitz	84	8
Prescriptions	429	96
Sal Volatile	40	5
Soda, Carbonate and Bicarbonate	215	5
,, Sulphate (Glauber Salts)	101	—
Sulphur and Preparations	99	4
Sweet Spirit of Nitre	103	22
Tincture of Iodine	170	14
,, Quinine, Ammoniated	113	7
,, Rhubarb	18	—
Vaseline	13	—
Wine, Ipecacuanha	15	1
,, Orange Quinine and Quinine	13	4
Other Drugs (83 kinds)	458	32
Total Drugs	5,863	426

The majority of these "drugs" are obviously vendable by unqualified traders, and it would be interesting to know how many samples were obtained from pharmacists, and how they were labelled. "Wine, Orange Quinine and Quinine" is one of the best official locutions we have noticed for some time.

SIT TERRA LEVIS.—"It is estimated by Paris perfumers that 1,000 tons of face powder is used by the women of Paris and visitors to the city in a year."—"Daily Express."

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Blackburn.—At a meeting of the Insurance Committee, on October 11, the Coventry Committee wrote referring to the proposal of the Ministry of Health to repeal the provisions of the Medical Benefit Regulations dealing with excessive prescriptions, and said the primary function in connection with scrutiny of doctors' prescribing would now be transferred to the Minister. The Minister might, under his own conditions, allow Panel Committees to continue certain of these functions, or he might remit cases of excessive prescribing to the Panel Committee for report. The Coventry Committee suggested an alternative regulation, under which a sub-committee of the Insurance Committee would be set up and which, in future, would be responsible for the routine duties of scrutinising prescribing. Mr. R. L. Gifford, Ph.C., J.P., said this was a very important question. He thought the committee ought to support the Coventry Committee. The alternative policy outlined by them was preferable to the method proposed by the Minister of Health. Mr. E. Hindle, J.P., said in Blackburn the question of excessive prescribing had not given the committee much trouble for some years. Alderman Watson said he was not in favour of power being placed too largely in the hands of the central authority. Mr. W. H. Grimshaw, M.P.S., in supporting, said he viewed with some misgiving the attempt of the Minister of Health to transfer to himself the duties of Panel Committees. He thought it would be unwise for the present method to be abolished. The committee decided to support the Coventry resolution.

Middlesex.—The bi-monthly meeting of the Insurance Committee was held on October 1. The following payments were made by the Finance Sub-Committee from the drug account:—To chemists (June account), £3,309 12s. 5d.; to practitioners for emergency drugs, £2 15s. 8d.; ditto for insulin, £26 6s. 3d.; to chemists (July account), £3,275 6s. 4d.; to practitioners for dispensing-patients (third quarter), £222 8s. 5d. The Finance Sub-Committee had admitted fifty-four claims from insured persons for refunds of amounts paid to practitioners and to chemists for drugs, and debited the Drug Fund with £2 14s. The Chairman brought up the report of the Pharmaceutical Sub-Committee regarding a question between an insured person and a firm of chemists as to the alleged inaccurate dispensing of a prescription. A representative of the firm emphatically denied that the prescription referred to was incorrectly dispensed. After hearing the evidence the Chairman said that it was so contradictory that the Sub-Committee found it impossible to ascertain the facts. They recommended that no further action be taken. The reports were adopted. A doctor was fined £10 for neglecting to obey a call to a panel patient at 11 p.m. It was also decided that he should pay £7 8s. 6d., the amount of the bill of the doctor who attended the patient on the night in question and subsequently. The doctor pleaded that he learned that the patient had been feeling ill since half-past five that evening, and that the demand at 11 p.m. for an immediate visit was unreasonable.

Portsmouth.—The Insurance Committee have replied to a letter of the Ministry of Health in regard to the testing of dispensing that they have not initiated any such scheme for testing medicines in the area, as they are satisfied that the drugs and appliances are of a proper standard quality and quantity. The prescription data for the second quarter of 1923 showed the following results: Cost of prescriptions, £1,646 6s. 7d.; number, 48,876; average ingredient price of prescriptions, 3.5d.; average dispensing fee, 4.6d. A comparative return of the number of prescriptions issued was as follows:—

	1921	1922	1923
First quarter ...	57,736	63,816	57,770
Second quarter ...	37,540	42,285	48,876
Third quarter ...	35,977	39,070	
Fourth quarter ...	45,896	49,800	

Staffordshire.—With reference to the case of a company of chemists failing to comply with the terms of service, which came before the Staffordshire Insurance Committee recently (*C. & D.*, September 8, p. 350), Mr. John Wood (chairman) paid a tribute to the work of the chemists in the county. He said he thought it was remarkable that during eleven years the Health Insurance Act had been in operation this was the first complaint the Pharmaceutical Service Committee had had to deal with. There are 200 chemists in contract with the Committee.

Inquiry Concerning a Chemist

A REPORT of alleged delinquencies of a serious character on the part of a Northampton chemist on the panel was presented to the meeting of the Northampton Insurance Committee on October 9. It was decided that the chemist be severely censured and to recommend to the Ministry of Health that he should be required to pay a penalty of £25. The report of the Pharmaceutical Service Sub-Committee stated that the matters referred for investigation had arisen in connection with two scripts dispensed by Mr. X., a chemist on the panel. The prescriptions were written by a panel doctor, at the request of the Clerk to the Insurance Committee, who had received complaints regarding the methods of dispensing by this chemist. The Sub-Committee found the following facts established:—As to Script I: Four prescriptions were dispensed by Mr. X.'s assistant, Mr. X being present at the time. The chemist was asked to supply 4 ozs. of absorbent wool. No absorbent wool was supplied. He was asked to supply ½ sq. yard of gauze; the gauze supplied fell short of this by 105½ sq. inches. The gauze was not in a sealed packet, nor was it in a sterile condition. The chemist was asked to supply two calico bandages, but supplied only one. He was asked to supply 2 oz. zinc ointment. The ointment and chip box in which it was supplied together weighed 1¾ oz. only. No label was put on the chip box to indicate the nature of its contents. This script was forwarded by Mr. X. to the Pricing Bureau for pricing, in the usual manner. As to Script II: Two prescriptions were dispensed by Mr. X. personally. The original of this script could not be traced. In the first prescription the chemist was asked for 5 gr. potassium iodide per ½ oz., and he supplied 5.8 gr. There should have been 10 minims of spirit of chloroform to the ½ oz. The chloroform was present, but in too small an amount to determine quantitatively. No alcohol could be detected. In regard to the second prescription, from the facts that "aqua" was not mentioned and that the chemist was instructed to "make or send 12," it was clear that this was intended for 12 dry powders; but the chemist sent instead a bottle of liquid measuring 8 ozs. The 8 ozs. of liquid contained 1.58 grains per ½ oz. of bismuth carbonate and 5.45 grains per ½ oz. of sodium bicarbonate. The quantity of bismuth carbonate present in one dose of the mixture was only one-sixth of that which would have been present in each powder; and the quantity of sodium bicarbonate present in one dose was a little over half the quantity prescribed. Gross negligence was inferred, and the Sub-Committee recommended: (a) That Mr. X. be severely censured; (b) that representations be made to the Minister of Health to the effect that the sum of £10 be withheld from the supplementary grant payable in respect of medical benefit to the Insurance Committee; and (c) that a like sum be recovered from Mr. X. The penalty, as stated above, was increased to £25. The chairman said this was the first complaint in eleven years against a chemist. Councillor Ashford, speaking on behalf of the chemists of the town, said that the Chemists' Association was astounded that anything like this should take place. The facts were so fully stated that he thought there was no ground for appeal. He thought the doctors would bear him out when he said that the chemists as a body tried to do their work in the best manner possible, and never to dispense anything contrary to prescriptions. The Chemists' Association were very much upset, and considered it cast a slur on the profession.

London Insurance Dispensing Statistics

THE London Insurance Committee, at its meeting on September 27, considered a report from its Medical Benefit Subcommittee on the cost of drugs and appliances supplied to insured persons in each of the Metropolitan boroughs during the year 1922. The outstanding feature about these figures is the fact that, speaking generally, the cost in the more populous areas is relatively higher than in the boroughs where the number of persons per acre is smaller. The total number of prescriptions dispensed by London chemists in 1922 was 5,664,860, at a total cost of £198,317. The number of insured persons on all doctors' lists during that year was over 1,600,000, and the average annual cost per insured person works out at about 2s. 6d. (*C. & D.*, I, 1923, p. 489). The above table gives a detailed summary. From this it will thus be seen that the cost in eleven London boroughs exceeds 2s. 6d. per person. Stepney has the distinction of being at the head of the list so far as cost is concerned. The average annual cost of drugs and appliances in that borough, where there are 141 persons to the acre, is 3s. 2½d.; in Woolwich, where there are seventeen persons per acre, the average annual cost is 1s. 9¼d. It would appear, therefore, that owing to the conditions in which the insured population of Stepney lives there is twice as much illness there as there is in Woolwich, a larger and, for the most part, more rural borough.

Borough	Total population	No. of persons per acre	Total No. of insured persons	Percentage of insured persons to total population	Total cost of prescriptions	Average cost (in pence) per insured person	Total No. of prescriptions	Average No. of prescriptions per person	No. of "effective" Insurance Practitioners	No. of insured persons to each doctor
Stepney	249,738	141	84,490	34	£13,546	38.5	388,737	4.6	55	1,536
Deptford	112,500	72	42,875	38	6,550	36.7	187,394	4.4	29	1,478
Shoreditch	104,308	159	37,792	36	5,703	36.2	164,678	4.4	21	1,800
Poplar	162,618	70	63,756	39	9,490	35.7	270,639	4.2	35	1,822
Bermondsey ..	119,455	80	58,431	49	8,582	35.3	251,484	4.3	31	1,885
Finsbury	76,019	130	29,009	38	3,956	32.7	112,448	3·9	19	1,527
Camberwell	267,235	60	91,661	34	12,366	32.4	354,620	3.9	80	1,146
Islington	330,028	107	122,215	37	16,436	32.3	473,693	3.9	93	1,314
Bethnal Green ..	117,238	154	43,017	37	5,775	32.2	167,404	3.9	28	1,536
Hackney	222,159	68	86,333	39	11,154	31.0	313,436	3.6	68	1,270
Southwark	184,888	163	80,485	44	10,286	30.7	303,273	3.8	39	2,064
For the whole of the County of London		60		36		29.8		3.6		1,136
Lambeth	302,960	74	105,515	35	13,084	29.8	367,970	3.5	97	1,088
St. Pancras	210,986	78	73,373	35	8,878	29.0	255,057	3.5	54	1,359
Stoke Newington ..	52,167	60	19,110	37	2,220	27.9	64,387	3.4	29	659
Holborn	42,796	106	10,519	25	1,211	27.6	33,748	3.2	17	619
Battersea	167,693	78	59,351	35	6,809	27.5	198,172	3.3	41	1,448
Hammersmith ..	130,287	57	42,329	32	4,638	26.3	133,631	3.2	61	694
City of London ..	13,706	20	4,296	31	466	26.1	12,692	3.0	11	391
Wandsworth ..	328,656	36	96,379	29	10,283	25.6	289,788	3.0	119	810
Fulham	157,944	93	53,666	34	5,719	25.6	160,191	3.0	46	1,167
St. Marylebone ..	104,222	71	29,395	28	2,997	24.5	84,958	2.9	31	948
Westminster ..	141,317	57	51,380	36	5,207	24.3	146,380	2.9	45	1,142
Chelsea	63,700	97	19,797	31	2,002	24.3	58,134	2.9	18	1,100
Kensington	175,686	77	63,055	36	6,349	24.2	185,212	2.9	73	864
Lewisham	174,194	25	46,785	27	4,682	24.0	131,137	2.8	58	807
Paddington	144,273	106	47,073	33	4,630	23.6	132,054	2.8	54	872
Greenwich	100,493	26	30,736	31	2,980	23.3	84,259	2.7	25	1,229
Hampstead	86,080	38	26,436	31	2,546	23.1	71,350	2.7	56	472
Woolwich	140,403	17	40,881	29	3,633	21.3	101,839	2.5	41	997

According to the Census taken in 1921, the total population of London was 4,483,249. The proportion of insured persons to total population is, roughly, one in three; in Bermondsey, however, the proportion is shown to be one in two, while in Holborn it is only one in four. The crowded areas which lie east and south of the City along the Thames contain, on the whole, a larger proportion of insured persons to total population than all the larger and less crowded areas in the county, and the demand upon the Insurance drug fund for the treatment of these persons is correspondingly higher.

Inquiry Regarding Medical Practitioners

IN an inquiry held at Tottington on October 9 by Mr. E. H. Tindal Atkinson, on behalf of the Ministry of Health, into the payment for private treatment by panel patients, it was stated that the medicine obtained from the chemist under the Insurance system was inferior to that supplied by the doctors themselves. The doctors concerned in the allegations were Dr. Gilbert Bailey and his partner, Dr. James Leach, Tottington. It was complained that in twenty-two cases Drs. Bailey and Leach had charged panel patients sums totalling £79 11s. 6d. When the accounts were sent on to Dr. Bailey he replied denying that he had ever made any such statement to the woman named or any other patient. This woman, purely on her own initiative, had constantly made disparaging remarks about medicines received from the chemist both to his partner, Dr. Leach, and himself. The doctor added that they supplied her with their own medicine, as they thought they were justified in doing so. That was practically what happened in all cases in which they had supplied their own medicine. He was always under the impression that if a panel patient insisted on his (the doctor's) medicine he could supply it. As soon as he found out his error he stopped the practice. After evidence was heard the chairman said the committee would report in due course.

Panel Doctors' Capitation Fees

THE Minister of Health has replied to the Insurance Acts Committee of the British Medical Association, who rejected the proposed new panel fees (*C. & D.*, October 13, p. 510). He states :—

The Minister does not propose to return a detailed answer to the letter. The offer made in his letter of October 3, he states, represented a considered decision given by him in a matter in regard to which the responsibility rests on him as a Minister of the Crown. He maintains the view that the alternative offers made represent a settlement fair alike to the profession and to the insured population. He hopes that on a fuller consideration the profession may see their way to accept one of the alternatives, knowing as he does that they realise the undesirability of prolonged controversy on a matter of this kind. On the question of rural practitioners and the question of arbitration, he is sensible of the peculiar difficulties of their position, and desires to find a remedy. The matter is now receiving his serious consideration, but, as already stated, he does not think that it can or should interfere with a settlement of the general capitation fee. As regards arbitration, the basis of remuneration was exhaustively considered by an arbitration tribunal three years ago, and he has accepted their award as one of the data on which the Government's offer has been determined. The Minister himself has, in fact, regarded his position as that of an arbitrator with the added responsibility of his ministerial duty.

Chapters in the Recent History of Quinine

By H. S. Abrahamson

III. The First Cinchona Contract in the Making

The first Cinchona Contract did not last in its original form for any length of time. The commencement of hostilities in 1914 led to the adoption of measures which were intended to enable the various parties to tide over the inevitable difficulties the war left in its train. The means adopted were many and various, and as they were only of a makeshift character, call for no more than a passing reference. Before dealing with the war and its effect on the industry it is of interest to recapitulate in brief the immediate negotiations which led to the conclusion of the first Cinchona Contract.

The number of efforts that had been made to stabilise the industry anterior to the conclusion of the first Cinchona Contract in 1913 were innnmerable. Every other cinchona planter had a plan in his pocket whereby he could turn a pining and nnremunerative industry into a mine as rich as those of Golconda. The very walls of the Clnb at Bandoeng, the capital of the Preanger Regencies and the centre of the cinchona growing district in Java, almost bulged whenever a congregation of florid Dutch estate managers got together and explained their schemes whereby the manufacturers could be "dished"—if the word be permitted—and the bulk of their profits, which were repnted to be fabulons beyond the dreams of avarice, could be diverted into the pockets of the planters and the coffers of the estate-owning companies. Bnt still the unit did not stir itself perceptibly. The figure 3 seemed to have some magic attraction for the cinchona unit. The price paid for cinchona bark at the Amsterdam sales simply refused to move to 4 cents per unit. The growers shook their fists, and the bogey who was supposed to lurk in the background and force the price of bark down whilst urging that of quinine upwards, to wit the manufacturer, was treated in the same way as the late President Kruger was "killed" in Kipling's ballad. The estate managers never tired of "killing" the manufacturers "with their mouths." Still, it hardly appeared to the few who looked a little beneath the surface, that it was in the manufacturers' interests to keep the price of quinine down to 6d. an ounce and depress the unit to 3 cents (Dutch currency). Surely, argued these few, there must be some other reason. Even a "ring" of manufacturers is hardly likely to cut off its nose to spite its face. Bnt there were others. And the others were many. They proved by every confused manner of statistical calculation that such a thing as over-production was absurd. Of course, they merely ignored stocks aggregating the whole of one year's prodnction. Pamphlets were printed, meetings and dinners were held, and the Java Press raised its raucous voice. But the magic figure of 3 cents remained the pivot around which the cinchona unit swayed. The smaller estates barely made ends meet. The larger were limited to modest dividends. In short, the cinchona planter's life was pathetic to a degree. Anyhow, he thought so. And, like the planter everywhere, he bemoaned his lot.

The "Preanger Kinabond" was the medium throngh which the cinchona planter expressed his feelings in Java. In Amsterdam he had the Association for the Promotion of the Cinchona Growers' Interests, which, notwithstanding its somewhat cumbersome title, was a most nseful body. For, be it said, however excellent an estate manager the planter may be, he has but a scrappy notion of business. The "Kinabond" was an outlet for his emotions, and its proceedings were often of great interest and importance in consequence of the technical papers read thereat. The commercial understanding of the position, however, was only expressed adequately in Amsterdam until Dr. H. J. Lovink was appointed Director of Agriculture and Commerce in Java. Dr. Lovink, a self-made man, possessed certain qualities rare in the Netherlands East Indies. He had a forceful personality and—many may not agree with this—the art of getting the best possible ont of those associated with him. Popular in some qnarters, intensely disliked in others, he at once devoted a little thought to the cinchona problem, which seemed to become more entangled as time passed.

Dr. Lovink, in consultation with his advisers, determined that a new Association of Cinchona Planters in Java shonld be formed. This was done, and a particularly active committee, composed of eminent men concerned in the Java cinchona indnstry, came into being. A semi-official Bnrean was opened, attached to the Department of Agriculture and Commerce in order that the economics of the prodnct might be studied and a scheme formulated whereby the malaise through which the industry was passing could be bronght to an end. I was appointed to take charge of the Bnrean.

The prime move made was to get some accurate figures. Many wonderfnl statistical graphs were in existence, all purporting to prove that the German manufacturers were systematically disembowelling the indnstry to their own profit. Not being cinchona estate managers, Dr. Lovink and myself were unfortunately cynics. In fact, we did not pay any serious attention to the many wild claims of the pundits, most of whom have now passed the Great Divide. We set to work to make investigations on our own account, and with the whole machinery of the Government behind us it may be assumed that our findings were of a more unbiassed nature than were those of the enthnsiast whose pen ran away with him in his lonely estate bungalow. We proved to our own satisfaction, though we could not convert a great many, that over-production unfortnnately had no mean bearing upon the position in which the industry found itself, althongh we certainly failed to eradicate the impression on our minds that the German "ring" and those associated with it held the stock end of the whip and that the planters only felt the lash. Still, even when we did succeed in drumming into the minds of the estate managers that over-production was unfortunately a fact, they pooh-poohed it. Why, it's only a small amount, was the habitual comment. Oh, the little more and how mnch it is! It assumed voluminous importance in those days.

The fact remained, over-prodnction was the bngbear of the position. Apart from the first-hand stock of bark in Amsterdam, eqnal to abont 100,000 kilos. of quinine sulphate, first hands in London held a further 100,000 kilos. of mannfactured quinine, the mannfacturers' ring held substantial qnantities, and it was obvious that large qnantities of second-hand quinine were not without their inflnence on the position. Even the Bandoeng Works had more capital locked np in bark and manufactured quinine than its directors deemed wholly desirable. Bnt the planter, many thonsands of miles from the scene of action in Europe, refused to accept the patent fact that so long as all the bark produced was not consumed there was indeed over-prodnction. He looked upon the manufacturer as his natural enemy, with whom there could be no bargaining, and when finally bargaining was commenced his hostility and suspicionsness did not make the task of those entrusted with the conduct of negotiations any easier. Jealousy was also rampant. Several self-appointed leaders—men, with a holding in a small estate maybe, found themselves ousted from the seat of anthority. The position was thns further complicated. On the mannfacturers' side, too, unanimity was not to be found. Finally, however, conversations were initiated in Holland. The seat of action was then removed to Pegli, near Genoa, thence to Java, whither Herr Walther Bnchler of the Brnnswick Qninine Factory, representing the German "ring," proceeded. After mnch talking, he kicked his heels in idleness for many weeks, and then returned to Europe empty-handed.

Still the negotiations proceeded—long, drawn-out and monotonons in the extreme, a fit snbject for the patience of any latter-day Job. But they succeeded in the end. It may be of some interest now, though late in the day, to trace their tronbled conrse.

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Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, October 18.

THERE has been a rather more cheerful tone in the Mincing Lane produce markets this week, in spite of the cloudy political conditions on the Continent. An outstanding feature was a large auction of isinglass, at which much higher prices were paid with an active demand. Among drugs, cardamoms have been selling more freely at advanced rates. Tinnevelly senna has also advanced, and Japanese slab camphor has been in more active demand for consumption at firmer prices. Menthol is easier with a lack of interest. Dementholised mint oil, on the other hand, has been much more active at advancing rates. Hull castor oil is 20s. per ton higher. Shellac is cheaper. Among pharmaceutical chemicals, the bulk of the changes are in an upward direction, principally owing to the absence of fresh imports from Germany and the chaos that prevails in that country. The interest displayed this week has shown that stocks of imported pharmaceuticals on the spot are less than was anticipated. At the same time orders are mostly for current requirements only, as the prevailing unsettled conditions preclude the placing of forward contracts for next year's delivery. Hexamine, salol, phenolphthalein, phenazone, guaiacol carbonate, methyl salicylate, sodium benzoate are dearer. Salicylates remain firm, and bromides show signs of recovering from their lengthy period of depression. Industrial chemicals have an uncertain feeling at the moment, being chiefly governed by the situation in Germany. Acetic acid is slightly weaker; arsenic has a stronger tone; cream of tartar is somewhat easier. Lead acetate and lithopone are firm. Potash prussiate is lower, and soda hyposulphite is dearer.

Higher	Firmer	Easier	Lower
Amidopyrin	Acetanilide	Acetic acid	Ferri ammon. cit.
Arsenic	Camphor (Jp., ref.)	Coriander seed	Potash citrate
Cardamoms and seed	Cassia oil	Creosote oil	Potash pruss.
Caraway seed	Citronella oil (c.i.f.)	Cumin seed	Rubber
Castor oil (Eng.)	Clove oil	Menthol	Shellac
Cod-liver oil	Petitgrain oil (Paraj.)	Terpineol	Sodium citrate
Coumarin	Sodium acetate		Wormseed oil (Amer.)
Guaiacol carb.	Sodium benzoate		
Geranium oil	Sodium hyposulphite		
Hexamine	Turmeric		
Isinglass			
Litharge	Steadier		
Methyl salicylate			
Mint oil (Jp.)	Toluol		
Phenazone			
Phenolphthalein			
Rape oil			
Red lead			
Salol			
Senna (Tinn.)			
Soda diethylbarb.			
Spike oil (Sp.)			

Cablegram

NEW YORK, October 17.—Business is quiet. Menthol is cheaper at $15.50, or $1.00 per lb. lower. Peppermint oil in tins is lower at $3.00, and Mexican sarsaparilla has been reduced to 27 c. per lb. Podophyllum root (mandrake) is cheaper at 17 c., and mercury has declined to $10.00 per flask. Curaçao aloes have advanced to 10 c., and senega to 65 c. per lb.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday :—

Place	Method of Quoting	Par of Exchange	October 10	October 17
Amsterdam	Fl. to £	12.107	11.58—11.58½	11.55½—11.55¾
Berlin ..	M to £	20.43	20 milliards*	28—33 milliards*
Brussels ..	Fr. to £	25.22½	88.90—89.00	86.50—86.60
Calcutta ..	Per rup.	24.1.	16⅜d.—16 13/32d.	16 7/8d.—16½d.
Christiania	Kr. to £	18.159	29.33—29.33	29.17—29.20
Constntnple	Pst. to £	110	760—780	760—780
Greece ..	Dr. to £	25.22½	290—295	292—297
Italy ..	Lire to £	25.22½	99¾—100	99½—99⅝
Kobe ..	Per yen	24.58d.	25⅜—25 1/16	25⅜d.—25 13/16d.
Lisbon ..	Escu.	53½d.	2 3/32d.—2 5/32d.	2 1/16d.—2 5/32d.
Madrid ..	Pts. to £	25.22½	33.54—33.57	33.40—33.42
Montreal ..	$ to £	4.86⅝	4.60¾—4.61¼	4.58½—4.59¾
New York	$ to £	4.86⅝	4.55⅛—4.55½	4.53⅛—4.53½
Paris ..	Fr. to £	25.22½	75.40—75.50	74.85—74.95
Singapore	Per dol.	—	28½d.—28 3/32d.	28 3/32d.—28 5/16d.
Switzerland	Fr. to £	25.22½	25.40—25.41	25.21—25.27
Vienna ..	Kr. to £	24.02	320,000—325,000	320,000—325,000

* Nominal.

Crude Drugs, etc.

AGAR AGAR is steady, No. 1 Japanese offering at 5s. 10½d. per lb., and No. 2 at 5s. 8d. on the spot.

ANNATTO SEED remains firm and scarce, with a sale of second-rate East Indian quality at 1s. 2d. per lb.

ANTIMONY.—The tendency has continued upward, due to restricted supplies and a fair demand. English regulus has been raised twice, now ranging from £38 10s. to £39 for special brands. Spot lots of foreign refined are worth about £27 10s., as much as £28 having been paid for limited quantities.

BALSAMS.—A sale of a single case of Tolu is reported at 12s. 6d. per lb. on the spot. Peru is quoted at 7s. 3d. for B.P. and Copaiba at 1s. 7d. per lb.

CADMIUM is easier, current quotations being about 3s. to 3s. 3d. per lb. Buyers are rather prejudiced by the freer supplies coming forward for some time past, especially from Australia.

CAMPHOR (REFINED).—Japanese refined slabs have been in better demand, with spot sales up to 3s. 7d. per lb., and further buyers at 3s. 6d. To arrive, October-November shipment is quoted at 3s. 6d. c.i.f.; ¼-oz. tablets are 4s. 9d., and afloat 4s. 6d. c.i.f. B.P. flowers is 4s. 4d. Crude camphor is 3s. spot and 2s. 10d. c.i.f. for October-November shipment.

CASCARA SAGRADA is still advancing, sellers quoting new bark at 120s. per cwt., and old at 125s. on the spot. A small lot of new bark was offered at 115s. c.i.f. and readily bought up. It is still difficult to get c.i.f. offers. The "Knight Companion" has brought 91 bales from Vancouver.

CHAMOMILES are selling at previous prices of from 425s. to 450s. per cwt. for Belgian as to quality.

CHILLIES.—Japanese have been offering at rather easier figures, and the quality shows an improvement.

CIVET.—Good quality in original horns is quoted on the spot at from 12s. to 13s. per oz., according to seller.

CLOVES are steady but quiet, with fair Zanzibar offering on the spot at 1s. 2d. per lb. To arrive, sellers of October-December shipment quote 1s. 2⅝d. c.i.f., and January-March shipment has been sold at 1s. 3d. c.i.f. The landings during the week were 11, and the deliveries 2,427, leaving a stock of 21,223 bales, against 618 at the same time of 1922.

COD LIVER OIL.—Our Bergen correspondent writes on October 15 that the stock is now limited, and the price has lately advanced further. The market is firm at 105s. per barrel c.i.f. London for finest non-freezing steam-refined quality. Some holders are demanding still higher prices.

ERGOT has shown slightly more interest with forward offers of Spanish at from 1s. 2d. to 1s. 3d. per lb c.i.f., according to quality and quantity. Good sound Spanish is none too plentiful on the spot at 1s. 4d. There is some talk of cheaper parcels coming from Russia.

EUONYMUS is very scarce on the spot, with shippers mentioning 5s. 3d. to 5s. 6d. per lb. to come forward.

HYDRASTIS is steady at 17s. per lb. on the spot.

LOBELIA HERB has shown more interest at from 1s. 2d. to 1s. 3d. per lb.

MAGNESIUM is steady at 3s. 3d. to 3s. 9d. per lb. for sticks, and the outlet is moderate. Only very little Continental is coming on offer, at about 3s. per lb. c.i.f. to arrive.

MENTHOL.—In the absence of demand spot prices are easier at 75s. per lb. for Kobayashi-Suzuki. To arrive, October-November shipment is quoted at 57s. 6d. c.i.f., and January-March at 42s. 6d. c.i.f.

MERCURY.—Business has been very slow, the demand having remained lifeless, but holders have not been eager sellers, asking about £9 5s. to £9 7s. 6d. per bottle. Stocks are believed to be increasing at the mines, but the supplies available on the spot are said to be light. Against our imports for the nine months of 27,248 bottles, our re-exports over the same period amounted to 14,375 bottles. Arrivals in London this week comprise 37,500 lb. from Spain and 17,375 lb. from Italy. The position is dealt with in our editorial columns.

NUTMEGS.—Singapore and Penang have been quoted at easier rates for distant shipment, but spot prices are steady. West Indian of all sizes have shown a better demand at advancing prices.

OLIBANUM.—Fair pale drop is quoted at 95s., and reddish 77s. 6d., good garblings 50s. to 55s., common ditto 40s., and siftings 57s. 6d. per cwt.

PIMENTO has been selling at firmer prices of late, up to 2½d. per lb. having been paid for small lots on the spot.

RUBBER is weaker, with further heavy selling on the part of weak holders, and the market has declined an additional ½d. per lb. since our last report. America has again assisted in bringing down the price by offering large quantities which had been bought by them for direct shipment from Singapore. The continued increase in the London stocks, combined with the heavy shipments from Singapore during the past quarter, have been important factors in keeping prices down to the present low level. The only salvation at present is the possibility of America coming into the market as buyers. Stocks last week were again increased substantially, and the surplus over deliveries amounted to 1,849 tons. Quotations, Wednesday, 5 p.m.); No. 1 standard crêpe and ribbed smoked sheet, spot and October, 1s. 7⅞d.; November-December, 1s. 2⅛d.; January-March, 1s. 2½d.; April-June, 1s. 3d.

SEEDS.—The following spot quotations were current on Wednesday: Spanish ANISE, 80s. per cwt., and Russian, 62s. per cwt. CANARY SEED.—Mazagan, 19s. to 19s. 6d. per cwt.; Larache, 18s. per cwt. CARAWAY SEED.—Dutch, 115s. per cwt.; Morocco, 85s. CORIANDER SEED.—Sound, 41s. 6d., and wormy 32s. 6d. to 35s. per cwt. CUMIN SEED.—Morocco, 120s. per cwt.; Malta, 115s. DILL SEED, 21s. per cwt. FENNEL SEED.—Indian, 38s. to 45s. HEMP SEED.—Manchurian, 18s. per cwt. FENUGREEK SEED.—Morocco, 25s. LINSEED.—Morocco, 22s. 6d. per cwt. MUSTARD.—English, 30s. to 35s. per cwt. Market is quiet.

SENEGA.—The New York price is still advancing 65 cents per lb. being quoted. On the spot, in view of the large supplies, it would be difficult to sell quantity at 3s. per lb. It may be recollected that several years ago the drug was reshipped from London to New York, and there is nothing to prevent history repeating itself.

SENNA.—Tinnevelly has been selling more freely of late at higher prices, and nothing is to be had below 3d., no very common offering; up to 7d. per lb. is quoted for fair bold greenish. Pods are selling at from 4d. to 5½d. per lb. as to quality.

SERPENTARY ROOT is in better demand at 4s. 6d. per lb. on the spot.

SHELLAC.—The spot demand has been more restricted in a generally easier market, partly in sympathy with Calcutta, although recent arrivals were decidedly smaller against fairly liberal deliveries. The outlook is uncertain. The spot value of usual standard T.N. quality closes at 305s. per cwt.; A.C. cakey is 295s., and G.A.L. 270s. The sales for delivery include December at 295s. to 285s. to 290s., and March at 290s. to 287s. 6d.

STARCH PRODUCTS.—Dutch farina is firm at 17s. per cwt. on the spot, and 15s. 9d. f.o.b. for prompt shipment. American maize starch powder is 17s. 6d. on the spot, and dextrin is 23s. to 24s. per cwt. for Dutch. Rice starch crystals offer at 50s. for English and 33s. 6d. per cwt. for Continental.

TURMERIC is firm, with sound Madras finger offering at 75s. per cwt., and Cochin split bulb is dearer at 20s. per cwt.

WAX (VEGETABLE).—Japanese is quoted at 83s. per cwt. on the spot, and at 75s. c.i.f. for October-November shipment. Fatty grey Carnauba is 92s. 6d., and chalky 90s. per cwt. on the spot.

Essential Oils

THERE are several oils for which demand has been fairly active this week, and prices generally have a tendency to advance. Cassia and Japanese mint oils have been in better request and are dearer. Owing to the high price of Bourbon geranium, consuming demand is very small. Spanish spike is improving, and may still advance. Ceylon citronella appears to be, for the present, in a hopeless position, owing to adulteration on a hitherto unheard-of scale. Clove oil is in good demand at rates more in keeping with the cost of the spice. Paraguayan petitgrain is firmer. New-crop wormseed is much cheaper. Aromatic and synthetic chemicals are generally firm. Coumarin is dearer; terpineol is cheaper.

The following are the quantities and values of the essential oils (other than turpentine) imported into and re-exported from Great Britain for September 1923, compared with the same month in 1921 and in 1922, also for the nine months ended September 30, 1921–1923:—

		1921	1922	1923
September imports (other than turpentine)	lb.	167,640	409,710	373,923
	value	£39,956	£90,098	£81,981
Jan.-Sept. imports do.	lb.	1,245,751	2,366,422	2,780,334
	value	£336,195	£607,514	£699,314
September re-exports do.	lb.	70,005	71,387	71,345
	value	£33,916	£20,401	£26,089
Jan.-Sept. re-exports do.	lb.	459,297	606,282	621,176
	value	£212,820	£269,538	£264,483

ANISE (STAR).—"Red Ship" on the spot is steady; sales include one five-case lot at 1s. 10d. per lb., and for quantity 1s. 9½d. would be accepted. The price quoted for September-October shipment is 1s. 8d. c.i.f.

BERGAMOT.—Prices generally are as last quoted, from 13s. to 13s. 3d. per lb. c.i.f. to arrive for 37 to 39 l.a.; for one brand 13s. 9d. is the figure asked. On the spot from 13s. 6d. to 13s. 9d. is about the value.

CAJUPUT has been selling on the spot; holders quote from 3s. 1d. to 3s. 3d. per lb., according to quantity.

CASSIA.—Sales have been made at 10s. 6d. per lb. for 80 to 85 c.a. on the spot. Holders now quote from 11s. to 11s. 6d.

CITRONELLA.—Ceylon on the spot is obtainable in small lots only at 4s. 1½d. per lb. Sales of October-November shipment have been reported at 3s. 5d. to 3s. 5½d. c.i.f., and second-hand offers are made at 3s. 6½d. c.i.f. Shipments of oil redistilled in Mysore and now afloat have been sold at 3s. 9d. c.i.f. Java is firm on the spot and in steady demand at from 4s. 1½d. to 4s. 2d. per lb. Sales are reported at 4s. 0½d. c.i.f. to arrive.

CLOVE.—Demand has been active and higher prices have been paid during the past week. English distillers are now quoting about 8s. 6d. per lb. Merchants are quoting from 8s. for B.P. oil distilled abroad.

EUCALYPTUS is very firm and in steady demand at 2s. 6d. per lb. for 70 to 75 per cent.

GERANIUM.—Bourbon is very scarce on the spot and dearer; very small supplies are offered at from 35s. to 36s. per lb. The price quoted to arrive is, in some directions, above these figures, up to 38s. 6d. c.i.f. being quoted. Demand appears to be falling off, owing to the high prices. Algerian is firm at from 30s. to 32s. 6d.

LAVENDER.—French new crop oil is selling readily on the spot in some directions; from 23s. to 26s. per lb. is asked for 38 to 40 per cent., according to seller. Distillers at the source are reported to have been offering at 185 fr. to 200 fr. as to ester. The Grasse houses have taken up practically the whole of the remaining oil,

it is expected that prices are unlikely to decline this season.

LEMON is steady at from 2s. 8d. to 2s. 10d. per lb. on the spot, and for shipment 2s. 8d. c.i.f.

LEMONGRASS.—Cochin is quiet at 2⅜d. per oz. on the spot; the price quoted for shipment is a shade easier at 2 3/16 d. c.i.f.

MINT.—Japanese dementholised Kobayashi-Suzuki is dearer, following sales at 11s. 6d. to 12s. per lb. Spot is firm at 12s. October-November shipment is offered at 9s. 6d. to 10s. c.i.f.; January-March, 7s. 9d. c.i.f., and quite a large business has been done for early shipment. About 150 cases afloat are reported sold to Hamburg.

ORANGE.—Sicilian sweet is unchanged at 10s. to 10s 6d. per lb. on the spot or c.i.f. to arrive. West Indian on the spot is offered at 9s. per lb. for sweet and 8s. for bitter. The price quoted for shipment is 8s. 3d. to 8s. 6d. c.i.f. and 7s. 6d. c.i.f. respectively.

PALMAROSA on the spot is steady at 22s. per lb. For shipment business would probably be done at 18s. c.i.f.

PATCHOULI.—Penang on the spot is steady at from 25s. to 28s. per lb. as to quality. For Mysore 32s. is wanted.

PENNYROYAL.—Spanish is very scarce on the spot, small lots offering at from 7s. 6d. to 7s. 9d. per lb.

PETITGRAIN.—Paraguayan on the spot is very firm at from 8s. 3d. to 8s. 6d. per lb. Forward shipment is reported sold at 8s. 6d. c.i.f.

ROSEMARY.—Spanish on the spot is obtainable at from 1s. 7d. to 1s. 8d. per lb. French is quoted at 2s. 7d.

SANDALWOOD.—East Indian B.P. oil is in steady demand; the spot price is unchanged at 25s. per lb.

SPIKE.—Spanish is in good demand and dearer at 3s. per lb. on the spot. French is quoted at 5s.

WORMSEED.—American new crop oil is offered on the spot at the lower rate of 21s. per lb.

The following are current spot quotations:—BOIS DE ROSE (FEMELLE) firm, 11s. per lb. CAMPHOR, WHITE ESSENTIAL, drums 75s. per cwt. CARAWAY, firm, 34s. to 35s. per lb. CEDARWOOD, steady, 1s. 2½d. drums, 1s. 4d. cases. GINGER-GRASS, quiet, 7s. 6d. per lb. GUAIACWOOD, American, steady, 20s. per lb. JUNIPER BERRY, quieter, at 4s. 9d. to 5s. per lb. NUTMEG, steady, 4s. 3d. per lb. PEPPERMINT, American, steady, 14s. 6d. to 15s. per lb. SPEARMINT, unchanged, 12s. per lb.

Aromatic and Synthetic Chemicals, etc.

Amyl salicylate	3/6 to 4/–	Iso-eugenol	16/–
Aubepine	12/– to 14/–	Linalol	17/– to 18/6
Benzaldehyde f.f.c.	3/–	Linalyl acetate	21/–
Benzyl acetate	3/–	Methyl anthranilate	9/–
,, alcohol	3/–	,, salicylate	2/8 to 2/10
,, benzoate	3/3	Musk xylol	12/–
Bromstyrol	9/6	Phenyl ethyl alcohol	16/– to 17/–
Citral	9/6	Safrol (cases)	1/10
Coumarin	20/–	Terpineol	2/6 to 2/9
Eugenol	11–	Vanillin	22/9 to 23/–
Heliotropine	8/–		

Pharmaceutical Chemicals, etc.

THE movements during the past week have been of much interest with the "cause" in Germany and the "effect" on spot. Our recent comments on the probability of a general hardening in spot values seems to have been fully realised already. The position in Germany to-day has had no parallel throughout the long period of cheap money in that country. To-day the national coinage is of no commercial value, and a state of utter chaos has arisen as a result. Buying and selling in marks, except in domestic retail trade, has ended. The makers of chemical products have found in many instances that it is impossible to obtain their raw materials, and in the few cases where supplies have been secured, the price paid for same has enforced a considerable increase in the values of the finished product. It cannot be said that there is much in the way of a scarcity of supplies of chemicals in Germany, but it can be definitely stated that their quotations are likely to stand at much higher levels for some time to come. While matters political may take a turn that will mean little further supplies, and consequently a shortage at famine rates on spot—which is the worst outlook—the best that can be expected is supplies at dearer sterling prices. In practically every case where an advance in spot values is recorded in our report, same is due entirely to the unhappy state of affairs in Germany.

ACETANILIDE is showing up at firmer rates, and few spot holders are accepting less than their quoted rates of 1s. 9d. to 1s. 10d. per lb.

AMIDOPYRIN.—One of the Continental makers has raised his price to 13s. 6d. per lb.

ASPIRIN.—Dealers holding spot stocks seem to be in a strong position, and are keeping their prices up firmly at 3s. 1d. to 3s 3d. per lb. for good brands. One of the leading French makers is quoting 3s. 5d., and business at 3s 3d. has been refused. German makers quote 4s. per lb.!

ATROPINE.—Sulphate is offered at about 12s. per oz.

BARBITONE remains in small demand on spot, but the position is well maintained in the region of 17s. 9d. per lb.

BENZALDEHYDE .03 keeps steady on a quiet market as quoted at 3s. per lb.

BENZOIC ACID, B.P., continues to be offered at 2s. 3d. to 2s. 6d. per lb., with inquiry slow and small. Many of the offers do not apply to B.P. quality, which is practically unobtainable on the spot, and buyers would pay 4s.

BENZONAPHTHOL is nominal on spot, with nothing doing. Continental rates are dearer.

BETANAPHTHOL.—Resublimed is quoted on spot in the region of 1s. 10d. per lb., with few buyers.

BROMIDES.—The spot position seems to be gradually recovering from its recent long period of weakness and slow business. Ammonium, 7d. to 8d. per lb.; potassium, crystals and granular, 6¼d. to 6¾d.; sodium, crystals and granular, 7d. to 8d. per lb.; all B.P. German makers quote 1s. 3d. to 1s. 6d. per kilo f.o.b. for potash, with second-rate makers quoting less.

CALCIUM LACTATE keeps very steady, with a tendency to advance from the present level of 1s. 9d. per lb.

CHLORAL HYDRATE, in one-cwt. lots of duty paid, is perhaps a shade firmer, with most holders asking 3s. 11d. and 4s. per lb. for smaller parcels.

CITRATES are 2d. per lb. cheaper; ferri ammon. citrate is 2s. 4d. per lb. for 28-lb. lots, and 2s. 3d. for cwt. lots. Sodium citrate is 2s. per lb. for cwt. lots. Potash citrate is 2s. 2d. to 2s. 3d.

CITRIC ACID, B.P.—We have nothing further to add to our recent comments. The spot position remains weak, with business lacking badly. Quoted at 1s. 4½d. per lb., less 5 per cent.

COCAINE has been selling freely at firm prices, which are from 16s. 6d. to 17s. 3d. per oz. for hydrochloride, according to quantity.

CREOSOTE, B.P., is offering on spot at about 2s. 5d. to 2s. 6d. per lb., with not much demand.

CREOSOTE CARBONATE, although seldom asked for, is now quoted from 8s. 6d. to 9s. per lb., on spot.

GUAIACAL CARBONATE has advanced to about 10s. to 10s. 6d. per lb. on the spot. German makers quote 23s. 5d. per kilo f.o.b. Hamburg, and a leading French make is offered at 11s. 3d. per lb.

HEXAMINE.—A further advance in prices for spot goods is recorded, dealers now quoting firmly at 4s. to 4s. 3d. per lb., with not much about. Continental rates are also dearer.

HYDROQUINONE remains dull, with dealers quoting in the region of 3s. 6d. per lb.

METHYL SALICYLATE.—The lowest price seen on spot for one-cwt. lots is about 2s. 8d. per lb; up to 2s. 10d. is quoted for small quantities.

METHYL SULPHONAL holds firm at 14s. 6d. per lb., and is likely to advance.

MILK SUGAR is very irregular on the spot, with certain isolated parcels of mostly second-rate German make offering at low prices; for B.P. powder about 80s. per cwt. would have to be paid. Next season's New Zealand output is already said to have been disposed of at a very favourable price, so that little need be anticipated from this source.

PARAFORMALDEHYDE is fully maintained on spot at 3s. 6d. to 3s. 9d. per lb., the former being for large quantities. Higher prices are expected.

PARALDEHYDE is now steady at the higher rates of 1s. 5d. to 1s. 6d. per lb.

PHENACETIN.—Dealers holding spot stocks are mentioning 6s. 1d. for one-cwt. lots, and up to 6s. 6d. for smaller quantities.

PHENAZONE.—Dealers' prices continue to appreciate, and quotations are now made at 7s. 6d. up to 8s. per lb., with the market firm, at which prices it cannot be replaced. Continental makers are sold out, and there is a scarcity for forward delivery.

PHENOLPHTHALEIN is very much dearer, spot offers being firm at 7s. per lb.

POTASSIUM PERMANGANATE, B.P.—The lowest offer from dealers seems to be about 9½d. per lb., with higher prices likely.

QUININE has shown more interest of late, and with a better inquiry the market is firmer. Continental makers continue to make sulphate at 2s. 3d. per oz. for 1,000 oz. lots.

and smaller quantities. It would appear that the bulk of the cheap parcels which have been offering as low as 2s. recently have been disposed of, and 2s. 2d. is readily obtainable. The agents for Japanese makers are still offering in limited quantity, and further shipments are afloat. The Hoshi works remain intact, but with a temporary interruption, there is a possibility of supplies being somewhat short before the next arrival in a few weeks.

RESORCIN remains dull: quoted in the region of 5s. 9d. per lb.

SACCHARIN.—Dealers quote at 125s. for 200 lb., and up to 130s. per lb. for one-lb. lots of 550 powder, duty paid. The German makers have slightly lowered their prices, but they do not compete in this market.

SALICYLIC ACID, B.P.—This market keeps firm, and seems likely to advance. Spot prices firm at 2s. 3d. to 2s. 4½d. per lb.

SALOL has been in more active demand, and prices have advanced, with free sales up to 3s. 6d. per lb., and 3s. 9d. asked.

SANTONIN valued at £80,000 has been received from Russia.

SODIUM BENZOATE has advanced, with dealers now quoting at 2s. 6d. to 2s. 8d. per lb. German makers quote 2s. 5d. per lb. f.o.b. Hamburg, and good sales have been made in spite of lower quotations here.

SODIUM DIETHYLBARBITURATE has again advanced, being now quoted at 18s. 3d. to 18s. 6d. per lb.

SODIUM SALICYLATE.—The spot position is now very firm, and much higher prices are being mentioned, with supplies limited. The Continental position is not bright as regards supplies or cheaper prices. On spot, powder, 2s. 8d. to 2s. 9d.; crystals, 2s. 9d. to 2s. 10d. per lb. Powder has sold freely at 2s. 8d., and the production is fully engaged.

SULPHONAL is not likely to fall below the present price of 14s. per lb., despite lack of demand.

TARTARIC ACID, B.P.—Spot offers are in the region of 1s. 1½d. per lb., less 5 per cent., but at these rates the position is distinctly weak. Business show no improvement.

TERPIN HYDRATE holds steady on spot, as quoted by dealers at 1s. 9d. per lb.

Industrial Chemicals, etc.

London, October 17.

THE feeling is rather uncertain at the moment, while business shows little life with the consequent sprinkling of weak holders about; in other directions the tendency is somewhat firmer on account of the situation in Germany. The lack of buyers still noticeable is no doubt due to the general lack of confidence in the stability all round. Much depends on the outcome of the political situation in Germany.

ACETIC ACID seems to have weakened a little during the past week. Spot offers appear to be free at about £47 for 80 per cent. technical and about £48 for 80 per cent. pure. Glacial is mentioned in the region of £72 per ton, in glass demijohns, ex wharf, London.

ACETONE keeps steady with inquiry well sustained for the limited supplies offering at about £125 per ton for British Government specification.

ARSENIC.—The position is changing each week. After the recent weakening, the tone is now much stronger. Inquiry from America, with orders being booked, has been very extensive. Cornish white powdered is offered on spot in a few small lots in the region of £64, ex store; f.o.r. Cornwall is about £62 per ton, and in restricted supply also. Japanese and Grecian is offered to arrive at £61 to £62 per ton c.i.f., and the latter is quoted in warehouse at about £62 to £63.

BARIUM CHLORIDE keeps steady with importers quoting at about £15 per ton for 98 to 100 per cent., with a little business doing.

COPPER-SULPHATE.—The slackness of business continues, and makers in some cases seem willing enough to pick up orders at £25 for casks, f.o.b., although one hears of terms varying up to £26. During last month only 116 tons were exported, this making the total for the nine months 38,990 tons, which compares with 37,802 tons in the same period last year.

CREAM OF TARTAR is somewhat easier at about 85s. per cwt., with business rather slow and small in volume. There may be a recovery here, due to prevailing conditions on the Continent.

EPSOM SALT remains dull, with commercial quality offering by dealers at about £4 10s. per ton, in bags.

FORMALDEHYDE.—Inquiry this week, following on sharp declines in spot values, has been better and the position seems a little brighter at the present level of £61 to £62 per ton for 40 per cent. volume.

LEAD ACETATE is a good spot item, with supplies restricted and not much offering from the Continent, and what is at higher rates. Spot, brown, fully £41; white, fully £42.

LEAD-PRODUCTS.—British makers of red lead and litharge raised their quotation on Wednesday by £1 a ton to £43 10s. a ton for home use or f.o.b. for export. No change, however, was made in white lead so far.

LITHOPONE is likely to at least keep its present levels of £22 10s. to £23 per ton for 30 per cent. Continental red seal, and a slight advance is not unlikely.

POTASH CAUSTIC.—The spot position is certainly well up to last week's level of £31 per ton for 88 to 92 per cent. solid, in drums, and seems likely to move higher. The Continental position is moving in this direction. Spot supplies do not appear to be large.

POTASSIUM CARBONATE has met with a little business this week, and prices have been fully maintained and tend to advance: spot, 90 to 92 per cent., about £26, and 96 to 98 per cent., about £29 per ton.

POTASSIUM CHLORATE remains flat, with little inquiry. Dealers quote a shade under 3d. per lb. for quantities.

POTASSIUM PERMANGANATE is quotable at about 9d. per lb., which has governed a few sales: this price seems steady.

POTASSIUM PRUSSIATE.—Dealers have notified a further reduction in their price—now offering at 11d. per lb. for yellow, but the lack of good business is still very evident.

SAL AMMONIAC.—Holders of spot supplies seem well content to hold their prices firmly at unchanged rates; dog-tooth crystals, £50; medium, £42: fine white, £25 to £26 per ton. German makers' prices are dearer.

SALTCAKE remains steady, with plenty of inquiry for available supplies offering at £4 10s. for home trade, delivered, and about £5 5s. per ton f.o.b.

SODA ASH (58 per cent. light alkali) continues to be offered by British makers for home trade only at £7 10s. per ton, in bags, carriage paid.

SODA CAUSTIC.—Dealers' prices are being maintained, but business is still slow and small: 70 to 72 per cent., £17 10s.; 75 to 77 per cent., £19 10s. per ton, in drums, ex wharf, shipping port. British makers' prices for home consumers on contract are at: 70 to 72 per cent., £17 17s. 6d., and 76 to 77 per cent., £19 7s. 6d. per ton, in drums, carriage paid in Great Britain. Their prices for export vary as to destination.

SODIUM ACETATE has improved on spot being now offered at about £24 10s. to £24 15s. per ton.

SODIUM BICARBONATE from British makers for home trade only is unaltered at £10 10s. per ton, in bags, carriage paid in Great Britain.

SODIUM BICHROMATE from British makers for home trade only is offered at 4½d. per lb., carriage paid.

SODIUM CARBONATE (washing crystals) for home trade only is quoted by British makers at £5 5s. per ton, in bags, carriage paid. Imported is at competitive rates, ex store.

SODIUM CHLORATE seems of little interest, with dealers quoting rather under 2¾d. per lb.

SODIUM HYPOSULPHITE has advanced on the week in consequence of firmer prices from the Continent. Pea crystals, about £14 10s. per ton, in one-cwt. kegs. Commercial quality, about £9 10s. to £9 15s. per ton, in casks.

SODIUM PRUSSIATE remains flat, with the selling price a fraction under the quoted rate of 6d. per lb.

SODIUM SULPHIDE.—Spot offers are at level figures on the week, with not much inquiry: 60 to 62 per cent. solid, in drums, £14; ditto, broken, £15 per ton.

SULPHUR.—A moderate demand is reported and the tone is steady. The current quotation, delivered Manchester, for raw sulphur stands at £5 7s. 6d., and terms for shipment from Sicily range from £8 17s. 6d. to £9 2s. 6d. for flowers, and £7 10s. to £7 17s. 6d. for roll, landed on this side.

COAL-TAR PRODUCTS, ETC.—Business has shown little life during the past week. Prices quoted are about the same in most instances, with a slight tendency to weaken in some directions. ANILINE OIL and SALT have been little called for; quoted unchanged at 9d. to 10d. per lb., packages free. BETANAPHTHOL is weak, as quoted in the region of 1s. 1d. per lb. PITCH, after the improvement recorded last week, has kept quite steady at the level rate of 137s. 6d. per ton, f.o.b. East Coast, with a fair volume of inquiry on the market. Pure METHYL ALCOHOL is offered steadily at about £90 per ton, ex wharf, London, and some business has been done. DISINFECTANTS remain at 3s. 9d. per gallon, barrels free. NAPHTHALENE is, if anything, a little steadier at close up to £20 per ton. Crude, £5 to £11; crystals, £23; powder, £17; balls, £24; candles and tablets, £28 per ton, packages free. HEXAMETHYLENE keeps firm at last week's advanced price of 3s. 9d. to 4s. per gallon. PYRIDIN is not likely to move downwards from the present spot quotation close up to 21s. per gallon. CARBOLIC ACID crystals are quite steady at about 1s. 2d. per lb., f.o.b., in

large bulk packing, although the demand has been rather sluggish of late. CREOSOTE OIL is perhaps a shade easier, with offers at about 9¼d. to 9½d. per gallon, f.o.b. TOLUOL is steadier, but still in small demand, as quoted by makers at 1s. 8d. to 1s. 9d. per gallon, f.o.r. works, in buyers' packages.

Fixed Oils, etc.

THE volume of business, after slowing down the latter part of last week, has shown no sign of improvement. Prices, however, are quoted much about the same, but some slight reductions seem likely. PALM OILS are a steady feature. ACID OILS.—With hardly any supplies available, this market keeps very firm at high rates; coconut, palm kernel, 40s. 6d. spot; groundnut and soya are not offered. CASTOR is 1s. per cwt. higher, ex mills, Hull being:—Pharmaceutical, 57s.; first pressings, 52s.; second pressings, 50s.; all spot, in not less than one-ton lots. COCONUT.—Prices for all grades are unchanged on the week, but the market is much quieter, and the tone rather weaker: deodorised, spot, 51s. 6d.; Ceylon, 45s., c.i.f.; Cochin, 51s., c.i.f. COTTON remains dull, but so far prices are maintained, but are not at all firm; deodorised, 49s.; common edible, 46s.; soapmaking, 43s.; crude, 39s. 6d.; all spot. GROUNDNUT.—The price levels quoted last week are still being mentioned, but any business would be under these rates: the market has been dull; deodorised, spot, 55s. 6d.; crude Oriental, 50s., c.i.f. LINSEED (raw, naked).—After some days of quiet markets prices eased off somewhat, and close lower. On spot, 42s.; October, 40s. 9d.; November/December, 39s. 10½d.; January/April, 36s. 9d.; Hull, on spot, 42s.; October, 41s. 6d.; November/December, 39s. 6d.; January-April, 36s. 6d. Our exports of the oil during September showed a good increase to 4,877 tons, against 3,471 tons for September last year, the aggregate for the nine months being 32,240 tons, compared with 54,164 tons in the same period in 1922. PALM KERNEL.—Business has been dragging all the week—quoted rates are about level, but are not firm; deodorised, 47s.; crude, 41s.; all spot. PALM.—This market holds up fairly well, and prices are, if anything, a shade firmer: business has not been of any great volume; Lagos, 37s.; softs, 36s. 3d.; mediums, 36s. 6d.; hards, 37s.; bleached, 38s. 6d.; all spot. RAPE.—Refined on spot has advanced further up to 44s. 6d., while crude is dearer at 41s. 6d., with the market firm. SOYA.—There has been no improvement in business: prices quoted level on the week; deodorised, 46s. 6d.; crude, 40s. 6d.; all spot. TURPENTINE.—After being again firm early this week, the tone eased slightly, due to a very quiet demand. Dealers are not offering with anything like freedom, although a lot of American spirit was lately landed, owing to which the warehouse stocks were materially increased to, roughly, 20,000 barrels. On spot, 74s.; October/December, 74s. 6d.; January/April, 75s. 6d. per cwt. There has been a lull in the American markets, where the tendency was slightly easier. The September imports were 2,460 tons, this making an aggregate for the nine months of 14,562 tons, compared with 13,179 tons for January/September last year. WOOD.—Hankow in barrels is firm at 93s. per cwt., on spot.

LUBRICATING, MINERAL, AND BURNING OILS.—This market has undergone but little change during the week. Business remains decidedly slow, and in some directions the tendency is to cheaper price levels. BENZOL remains dull, with the market weak, as quoted, at 1s. 3½d. to 1s. 4d. per gallon, f.o.r. makers' works, in buyers' packages. BURNING OILS.—Crude, No. 3 8½d., No. 2 8d. per gallon, barrels free; prices are maintained at their old levels on a quiet market. FUEL OILS.—895 to 910 gravity, £4 7s. 6d.; 900 gravity, £3 10s. per ton, ex tank. SOLVENT NAPHTHAS.—This item remains very dull, and prices are not at all steady, as quoted, at 1s. 3d. per gallon drums extra for 90 to 160 and 90 to 190 heavy. Naphtha is also weak and dull as offered at 1s. 4d. per gallon. PARAFFIN WAX AND SCALE.—The wax market keeps very steady at 2¼d. to 3d. per lb., in bags, according to melting point. Scale holds firm, with the c.i.f. quotation at the dearer price of £16 per ton. PARAFFIN OILS.—American prime white, 11d.; American water white, 1s. per gallon, barrels free; Russian prime white kerosene, 6d. to 6¼d., ex tank; 6¾d., buyers' barrels, filled free; 9d., barrels free ex wharf London. PETROLEUM JELLIES.—Snow white, £58 to £64; yellow, £20 to £26; red vet., £20; ruby red, £21; dark stiff green, £13 15s. per ton, barrels free, ex wharf, London. SPECIAL OIL, for Diesels and motors, 10d. per gallon, barrels free; the market is unchanged. WHITE OILS.—This market holds very firm, and supplies restricted; Special No. 1, £44; No. 1, £38; No 1a, half-white, £33, in drums; No. 2, £27, in barrels, ex wharf, London. LUBRICATING OILS.—The shipment market is firmer, but the movement may be only temporary. Spot rates are so far unchanged, with the position steady; pales, £9 10s. to £24; reds, £12 10s. to £22; dark cylinders, £13 10s. to £26; filtered cylinders, £18 to £32; blacks, £7 10s. to £15 per ton, ex wharf, London, less 2½ per cent.; soluble oil, £18 10s. per ton. No. 1 RUSSIAN OIL, £18 per ton, in barrels, ex wharf, London, less 2½ per cent.

The Fine Chemical Market

IN view of developments which are taking place on the Continent, R. W. Greeff & Co., Ltd., have thought it advisable to issue a circular, in the course of which they state that: "The position of German manufacturers, who are faced with increased costs for almost everything, and with political turmoil and disorder in prospect, would seem to foreshadow a general advance in prices. The effect is already being felt in other Continental manufacturing countries, with the result that the works of the Société Chimique des Usines du Rhone are extremely busy. In many articles the demand upon their production is such that they are sold well ahead." Messrs. Greeff give a timely hint that buyers should see that their requirements are covered while current prices last.

Chemical Trade Matters

A NUMBER of interesting subjects are dealt with in the latest Bulletin (No. 7) of the British Chemical and Dyestuffs Traders' Association, including *foreign samples liable to Key Industry Duty and other ad val. duties.*

Samples of goods liable to the foregoing duties should be despatched by the foreign firm by (1) foreign and colonial parcel post, or (2) insured box post, and the contents and value declared. They will then come through without interruption. If posted abroad by sample or letter post they will on arrival in this country be seized by Customs and will be held up. Members receiving "Notice of seizure" from Customs, Mount Pleasant, E.C., of samples of dutiable goods sent by sample or letter post should forward a declaration stating the value of the samples in question. Although Customs have the power to confiscate such packets they will generally agree to deliver same on payment of the duty, together with a nominal fine of about one shilling. The above remarks also apply to samples of goods that come under the Dyestuffs (Import Regulation) Act, 1920, and in such instances members will have to obtain and forward to Customs an import licence to obtain delivery of the sample.

Germany (Occupied Territories).—The German Government have withdrawn the decree prohibiting their nationals from applying to the Franco-Belgian authorities for export licences. Trade between this country and the occupied territory should therefore be possible, but we understand from a reliable source that German exporters are, so far, showing little sign of making use of this concession.

Railways Act, 1921.—Classification of railway rates: In Bulletin No. 3 (August 7) members were invited to send in particulars of all cases which, in their opinion, the new proposed classification of goods are unfair and excessive. Protests had to be lodged by October 15, 1923. The Association has sent in general protests to the Railway Rates tribunal covering the whole of the chemicals, dyestuffs, etc., etc. It is pointed out that the proposed new rates are, on an average, 75 per cent. to 100 per cent. above pre-war rates, and in every instance show an advance on existing rates. Further, the Regulations governing acceptance of traffic have in many ways been altered to the traders' detriment.

Proposed "Bonding" of Goods Liable to Key Industry Duty.—The Association is still negotiating with H.M. Treasury on this matter, and hope to advise the result shortly.

The Formaldehyde Case.—The following letter was received from a member: "We beg formally to acknowledge the receipt of your letter of the 19th inst., and note the concession which you have obtained in regard to the Key Industry Duty, on account of the importation of formaldehyde, and we congratulate you on the speedy result you have obtained in this connection." The Association recovered over £97, paid by a member to the Customs.

Parliamentary Activities.—The Association has already made good arrangements for representation in the House of Commons during the coming Session. Members are assured that their interests will be adequately protected. Instances of injustice and hardship in connection with the Dyestuffs (Import Regulation) Act or the Safeguarding of Industries Act, Part I. should be forwarded to the office, 80 Fenchurch Street, E.C.3.

Correspondence

Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

What is Ext. Bellad.?

SIR,—Before me is the following prescription:—

Morph. hydroch.	...	...	gr. ⅛,
Ext. bellad.	...	...	gr. ½
Ol theobrom.	...	...	q.s.
Fiat supp. mitte.	...	...	vj.

This is a Qualifying examination problem, and presumably of the present year. What must be used for the extractum belladonnæ? In the 1864 and 1867 Pharmacopœias the only extractum belladonnæ was that prepared from the fresh leaves and known popularly as a "green" extract. In the 1885 B.P. this was continued, and an additional preparation from the dried root was introduced (ext. bell. alcoholicum) and was used instead of the green extract for emp. bellad. and ung. bellad. In the 1898 three extracts made their appearance: the green ext. now, and for the first time, called extractum belladonnæ viride, and a liquid extract from the dried root which was used for the production of the alcoholic extract (of the root), but its strength is stated to be one-third that of average samples of the 1885 B.P. variety of this name To confuse matters still further the 1914 B.P. gives: Liquid extract of belladonna containing 0.75 per cent. of the alkaloids of dry belladonna root, the same as the preparation of the 1898 B.P., and extractum belladonnæ siccum, which for the first time makes its appearance, and is prepared from dry leaves, having as its synonyms extractum belladonnæ alcoholicum and extractum belladonnæ. It cannot, therefore, be said that extractum belladonnæ alcoholicum is the same as extractum belladonnæ siccum, nor can this be the same as extract of belladonna, nor can it be extractum belladonnæ viride. There is no doubt that the official synonyms have gone too far, and that actually when ext. belladonnæ is ordered that should be used which is ext. belladonnæ of 1867 and 1885, which is equivalent to, or prepared in the same way as, extractum belladonnæ viride of the 1898. When there are differences of opinion in the examiners' camp, could not examiner and teacher meet together and settle these points?

Your faithfully,

ABEL SCHOLAR (15/10).

Doctors' Insurance Payment

SIR,—The latest reports on the new Health Insurance terms, according to the daily papers, are that the doctors are to be offered 8s. a head, and that the doctors are firmly resolved to refuse it as insufficient. Whatever may happen to the doctors, there is as yet no indication of what will be offered to the chemists and I suppose that, as in the past, it will be left until the present contract has practically expired, when a totally inadequate amount will be put forward, and we shall be recommended by our representatives to accept it. There are, of course, many anomalies which could, and have been, pointed out in the method of paying for Insurance dispensing. The bottle question alone is crying out for revision. To have to let out bottles on hire, involving the use of capital and loss by breakage, and having to return the deposit in full, without charging a farthing for the service, is, of course, ridiculous, and it has struck me that with the reduction in the price of bottles it is worse than it seems at first sight. Twelve-ounce bottles, for instance, which are the rule with the panel prescribing, were some time ago priced at 4½d., then at 3½d., and now at 2½d., so that to-day if a customer brings back a bottle on which he paid a deposit of 4½d., he has had the use of our property for nothing. We have all the trouble of washing and cleaning it, etc., and it is then worth 2½d.!

Faithfully yours,

PANELLITE (24/9).

Press Recipes

SIR,—Referring to the amusing item, "A Patrician Hobby," in your issue of September 8 (p. 352), a very amusing collection could be made of cuttings from the columns of daily papers under such headings as "Household Hints," in which housewives are given practical (sic) formulas whereby they can make their own necessaries instead of paying the "extortionate" charges demanded by the chemist. One of the first of these hints which I remember was handed over by a lady who had carefully cut it out of a ladies' journal. The cutting remarked that it was not necessary to pay the high prices charged for flavouring essences, as they could easily be made at home with little trouble, and proceeded to explain how to make essence of vanilla:—Procure half-a-pound of vanilla beans and one quart of alcohol. . . . The price of vanilla was enough for the lady, although she left the pharmacy, I have no doubt, with the impression that we were discouraging the sale in order to induce her to purchase our own make. The next one was a cheap substitute for eau de Cologne; this was another prospective customer lost with a similar impression, although I felt inclined to suggest s.v. meth. as being cheaper. Then came one for a ginger cordial, which would have been straightforward enough if the customer had not insisted on having the essence of tartaric acid in a bottle, not the ordinary tartaric but the real essence, as it made all the difference to the flavour! But one of the best in its unconscious humour, although there was nothing to be bought, was a note explaining how to clean windows, "A good way is first to wash off the dirt." Strange how these brainy ideas do not strike one until they are seen in print!—Yours truly,

WINDOW CLEANER (7/9).

Advertising Photographic Enlargements

SIR,—It is an understood rule with the photographic profession to put in the showcases samples of the best work only, but chemists, I notice, often ignore this rule. Although at times we are persuaded to display an enlargement more to please a customer than on account of its own merit, it is necessary to draw an emphatic line. Some of the films sent in for enlargements are very unsuited to the purpose, and every defect is enlarged with no possible remedy. This is so for the most part, no doubt, because the customer will not pay the price. I have been much interested in two out of several displays in chemists' windows. One is a sepia-toned enlargement (15 in. by 12 in.) of a group from a film 4½ in. by 2½ in., and is one of the best I have seen for many years. This is bound to be of use to the proprietor and bring in work. People want to know who took it, and how much one like it will be. The other example, exhibited in a very prominent place—in another pharmacy, of course—is decidedly the worst. The subject is a lady very much resembling a well-known character, but if a portrait, as one would suppose it is, the film should have been thrown out. The film must have been strangely developed, as the enlargement looks as if it had been made from a *positive*. I have never heard of any black or "coloured" lady players, but that is what describes this example. The point is—What good can this kind of thing do as an advertisement? I do not suppose that many dealers do their own work in this department. Writing with experience as a dealer, and several years' management of a big "D. and P." works, I have often wished chemists, in their position as dealers, would exercise some discrimination when they take orders. I can remember some very painful examples—films scratched from end to end, enlarged from No. 1 Brownie to half-plate, mounted for a shilling and worked up at that! A very good display can be made without much difficulty, for the reason that many films sent in for treatment really are of great excellence, and thus with a little diplomacy one can secure a few specimens well worth the trouble. Staringly worthless examples should never be shown.—Yours, etc.,

EXPERIENTIA (3/9).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Finger-stalls for Cleaning Teeth

In your issue of September 22, you publish under "Ideas" a paragraph respecting the use of cotton-wool for cleaning the teeth. So far back as 1909-10 I carried out a number of experiments with finger-stalls, made from strong Turkish towelling, for this purpose. I endeavoured to get cloth weavers to take the matter up, but did not succeed in interesting them. I still believe that the teeth cleanser of the future lies along this road.—*J. G. R.* (16/10).

A Medical Man's "N.B."

We are indebted to a subscriber (11/10) for a copy of a leaflet circulated to "the parent or guardian" by a provincial school medical officer, headed "How to prevent and cure sores on the face." The final sentence reads:—"N.B.—Diluted white precipitate ointment and boracic acid ointment [the latter has not been previously mentioned in the leaflet] may be obtained from any chemist, a sufficiently large quantity for most purposes being obtainable for the sum of one penny."

An Advertising Idea

It appears from a newspaper advertisement that while mixing a batch of a cleansing compound the managing director of the manufacturing company lost his gold ring in it, and he is so greatly attached to the ring that he offers a reward of £10 to any customer who finds it in a tin of the cleanser and returns it to him. In my experience in the wholesale I have not seen managing directors mixing the conf. sennæ or the pulv. glyc. co., so possibly the same idea would not serve; but I can see a good opening for the head chemist to lose a pearl from his valuable tiepin in the pill-coating machine. Or, now that we have so many lady pharmacists, one of them might manage to lose a priceless brooch in a batch of ointment, or drop a hairpin into the liq. ferri. iodid.; in fact, the variations are endless.—*Trois Sous* (8/10).

Legal Queries

Doubtful (8/10).—Lead acetate is not a scheduled poison.

Dispenser (13/10).—A grocer can stock Jeyes' Fluid, but every time he makes a sale he will be liable to a penalty of £5 under Section 15 of the Pharmacy Act, 1868.

W. A. S. (85/33).—A sample drug can be sold and recommended for ailments without incurring liability to medicine-stamp duty. The vendor, if a chemist, need not have a patent-medicine licence, but as most chemists are licensed this provision is not of particular importance.

M. A. T. (3/10).—(1) It is quite legal for you to supply a grocer with salt of lemon. In case of accident no blame is attachable to you. (2) It is legal to supply Part II poisons to the unqualified persons you mention, but it is not advisable to do so, as you are helping them to break the law. The moral side of the supply of scheduled poisons for resale by unqualified persons is worthy of consideration.

H. J. G. (216/16).—(1) You cannot sell 90 per cent. alcohol for use as a lotion. Spirit can only be sold in the form of a recognised pharmaceutical spirit such as sp. camph. (2) The label you send for "Lobelia Elixir" renders the preparation to which it is attached liable to medicine-stamp duty on account of the recommendation for its use in coughs, colds, etc. The wording of the other labels you send does not involve liability.

N. D. Co. (18/9).—It is not illegal to supply tincture of cantharides and pilocarpine nitrate to a hairdresser for the purposes of compounding a hair-wash. If the hairdresser puts up and sells a lotion containing these ingredients he will, unless the quantity sold is infinitesimal, incur penalties under the Pharmacy Act. Under the Order in Council which will shortly be issued under Section 4 (2) of the Dangerous Drugs and Poisons (Amendment) Act, 1923, the quantity of scheduled poison in a preparation will have to be stated on the label, and it will then be for the authorities to judge whether a prosecution should be instituted.

C. R. T. (9/10) has sub-let three upper rooms of his house. Last April the ceiling of one room fell down and "C. R. T." allowed the tenants a week's rent to compensate them for damage which they alleged had been done to their furniture. The tenants now say that during a recent deluge of rain water dripped through the skylight, and they have withheld a further week's rent. What is "C. R. T." to do? [Unless "C. R. T." has expressly agreed to keep the premises in repair he is not, in our opinion, under a legal obligation to repair the skylight. In any event, the tenants have no right to withhold rent due, and "C. R. T." should threaten to apply to the Court for possession of the rooms upon the ground of non-payment of rent.]

Dry Rot (8/10), who is a retailer of methylated spirits, asks if he can, without getting the express permission of the Board of Customs and Excise, make a solution of mineralised methylated spirits and mercuric chloride, 1 oz. to the gallon, to be sold to a builder for use in treating dry rot in wood. And, further, could he colour it green for safety? [As a licensed retailer of methylated spirits, "Dry Rot" would require the express permission of the Excise authorities to use the spirits for the purpose of making this solution. There is also the point of compliance with the poison regulations on the sale of such a dangerous preparation. The addition of tar to the liquid would be a safeguard against accidental poisoning, and would not be detrimental having regard to the purpose for which it is required.]

G. H. T. (13/10) has become tenant of a combined house and shop at a rent of £120 per annum. Three good rooms are sub-let unfurnished at 8s. per week. Is "G. H. T." entitled to increase the rent of the rooms? If so, and the tenant refuses to pay the increase, should "G. H. T." accept the old rent pending an appeal to the Court? [Upon the facts disclosed it is impossible to express an opinion upon "G. H. T.'s" right to increase the rent of the rooms. Assuming that they have never previously been let separately, the standard rent can only be ascertained by apportioning the rent of the whole premises, and, to avoid trouble, "G. H. T." should apply to the County Court to have the rent determined. We think that "G. H. T." should continue to accept the present rent in the meantime, as the Court will decide as from what date any increase is to be paid. We advise "G. H. T." to consult a solicitor.]

Artbar (6/10) recently bought a business "as it stood," and the assignment passed to him "the goodwill and stock-in-trade, chattels, utensils of such business and all fixtures and fittings in and about the shop and room adjoining." Among the articles on the premises when "Artbar" agreed to make his purchase were a chair in the shop and two chairs and a desk in the adjoining room. To whom do these articles of furniture belong? "Artbar," as lessee of the premises, agrees to "keep the interior parts of the premises in good and tenantable repair including the glass of the windows and all fixtures thereto," while the landlord undertakes to "keep the exterior parts of the premises in good repair." Who is liable to repair skylights which leak and paint the shop front? [In our view "Artbar" is entitled to the three chairs and the desk in the absence of special circumstances from which a contrary intention must be inferred. Unless the skylights leak in consequence of a structural defect we consider that "Artbar" must carry out the necessary repairs. The painting of the shop front comes within the lessor's obligation to keep the exterior of the premises in repair; but he is not liable to do painting which is required for the decoration, as distinct from the preservation of the premises.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. J. S. (21/8).—POWDER FOR QUIETING NERVOUS HORSES.—This powder is crystalline similar to caffeine, and answers the tests therefor. It appears to be the pure alkaloid.

W. & P. (25/8).—DOGS' COAT-CLEANING POWDER.—This powder contains 21 per cent. of chalk, and the remainder probably consists of partly effloresced sodium-carbonate crystals. The soluble alkali is equivalent to 49.3 per cent. of the anhydrous carbonate. It does not contain any of the other ingredients you suggest, nor does it contain soap powder.

A. M. (4/9).—LIQUORICE TABLET.—The sample you send seems to have a basis of stick liquorice. If as you say the price does not allow of the use of even the cheapest stick liquorice it would probably need gum and sugar to be added, but according to our examination the addition cannot be large.

H. L. (14/9).—The indexes of THE CHEMIST AND DRUGGIST for the past three years will furnish you with many references to the Dangerous Drugs Acts. The new *C. & D.* Poisons Card, No. 4, summarises the Act and Regulations as regards chemists.

J. B. B.—ELECTRIC LINIMENT P.F. 2 :—

Rad. anchusæ	ʒiv.
Pulv. capsici	ʒj.
Sp. tereb.	Oj.
Ol. camph. ess.	Oj.
Ol. sassafras	ʒij.
Ol. origani	ʒss.
Ol. gaultheriæ	ʒij. mxxxvj.

B. & Co. (20/9).—BOOK ON SYNTHETIC PERFUMES.—Poucher's "Perfumes" deals very largely with synthetic perfumes. See review of the work in the *C. & D.*, September 1, p. 324.

J. D. (20/9).—A good formula for Eau de Cologne is given in *The Chemist and Druggist Diary*, 1923, p. 264.

B. B. (9/10).—The strength of formalin (40 per cent.) to be used to prevent bunt in wheat is one pint to 36 gal. of water. The seed is placed in a bag and dipped in the solution for ten minutes, then spread out to dry.

Irish Chemist (19/9).—Ionone is the most penetrating violet perfume you can add to the liquid shampoo. You must, however, bear in mind that many essential oils and synthetic odours change in character after prolonged contact with an alkali.

M. I. (South Africa) (15/9).—BOOKS ON SOAP-MAKING.—See *C. & D.*, June 16, p. 858.

B. R. A. (3/10).—MARKING INK NOT REQUIRING HEAT.—The following is a formula for a marking ink that does not require to be heated after use :—

Asphalt	½ oz.
Spirit varnish	1½ oz.
Oil of turpentine	4 oz.

Mix.

C. H. S. C. (210/39).—(1) FORMALIN AS WHEAT DRESSING.—See reply to "B. B." (2) Bath crystals are perfumed by spraying the sodium carbonate (in needle crystals), spread out on paper, with a spirituous solution of the essential oils.

S. S. & Co.—ROUP POWDER.—This powder appears to be simply compound liquorice powder, the proportions of ash, moisture, etc., agreeing with that preparation. Sugar and sulphur are present. The colour differs slightly from the average, and prompts the suggestion that a small quantity of some coloured vegetable drug may have been mixed in. The nature of this addition is not detectable by analysis.

Doctor (11/10).—OLD PHARMACEUTICAL PREPARATIONS.—The following are notes of the old preparations you mention :—*Aq. Epileptica Langii* (Langius's Epileptic Water) : Take lilies of the valley M (handful) xij., put them into cong. iss. of cretick wine, and distil, after some days' insolation, to a dryness; to this water put of cinnamon ʒvj., nutmegs ʒss., long pepper ʒij., flowers of lavender ʒij., rosemary and stœchas ana ʒss., cubebs ʒij., mistletoe of the oak, roots of peony and dittany ana ʒss., then distil again in an alembic, and save a gallon of the first running by itself.—QUINCY (1718). *Caranna* : This resin, though included in P.L. down to 1746, was very little used. There was no official emp. caranna, the only official plaster containing the resin being the emp. stomachium of the Edinburgh Pharmacopœia (1735), in which it was one of thirteen ingredients, but the resin was applied (as a plaster probably) behind the ear to relieve toothache, etc. *Roman Wormwood; Absinthicum Romanum—Absinthicum Ponticum, tenerifolium, incanum C.B.* : It is cultivated in gardens, and flowers in July. It is not by much so bitter as the common wormwood, but is a more grateful stomachic. It astringes, incites, discusses, prevents putrefaction, and carries off choler by urine; and therefore it is good in all disorders of the liver, and abates pain, and discharges wind from the stomach and bowels. Stumller says there is not a chronic distemper in which it is not serviceable. A conserve made of it is now much in use in the shops, and in extemporaneous prescriptions for weakness of stomach, loss of appetite, and bad digestion, it is hardly ever omitted.—ALLEYNE (1733).

Common Potion. Potio communis purgativa Sydenhami

Tamarindorum	ʒss.
Foliorum sennæ	ʒij.
Rhubarbari	ʒiss.

Coque q.s., aquæ. colaturæ ʒ (quantity missing) solve.

Mannæ	
Syr. rosar. solutivi, ana ...	ʒj.

This was Sydenham's common purge after fevers. Alleyne gives forty-five recipes for similar purges. The following is from the "Pharmacopœia Pauperum" :—

Haustus purgans communis

Inf. sennæ	ʒiv.
Aq. epidem.	ʒij.
Syr. e spin. cerv.	ʒj. M.

The aq. epidemica it contained was a very multifarious composition. The third ingredient was a simple syrup of buckthorn.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," October 15, 1873

A Universal Pharmacopœia

[From the President's address before the British Pharmaceutical Conference.] There are few topics that have claimed so large a share of attention, or that have been discussed with the same earnestness, as the possibility of a general fusion of pharmacopœias, and there can hardly be one of greater importance to those who are liable at all times to be called upon to prepare the compounds of any of the very numerous existing codes. The spread of commercial enterprise and the yearly-increasing disposition to travel in foreign countries for pleasure or gain are rapidly softening national boundaries, and some recognised system in medical formulæ must become more and more an international question of the same sort as the simplification of coinage, or the adoption of common standards of weight and measurement. It is not to be expected that the dream of the dispenser—a universal pharmacopœia—can be brought about *per saltum*, the matter is too complicated to be settled in such a way, but it is no small thing to be able to record that in the short lifetime of the Conference two great steps have been taken towards the desired end.

[These steps were the merging of the London, Edinburgh, and Dublin pharmacopœias into the British Pharmacopœia, and the publication of one pharmacopœia for the whole of Germany in place of nine pharmacopœias.]

10 DAYS MORE

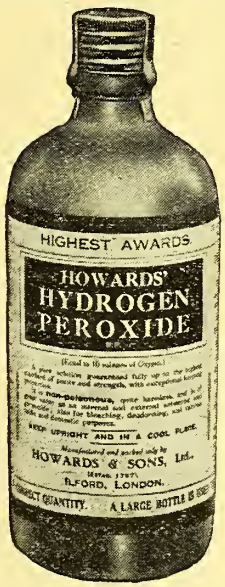
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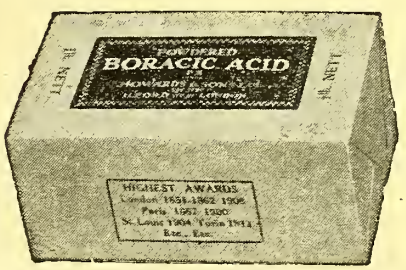
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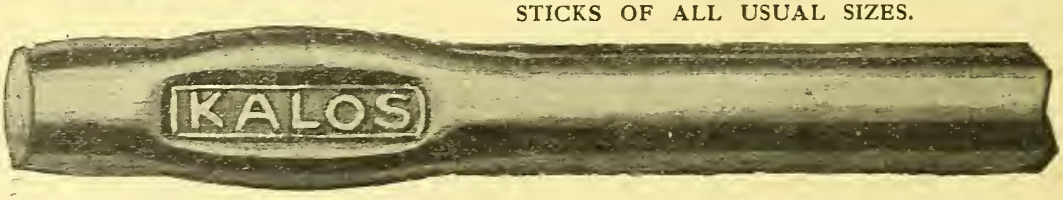
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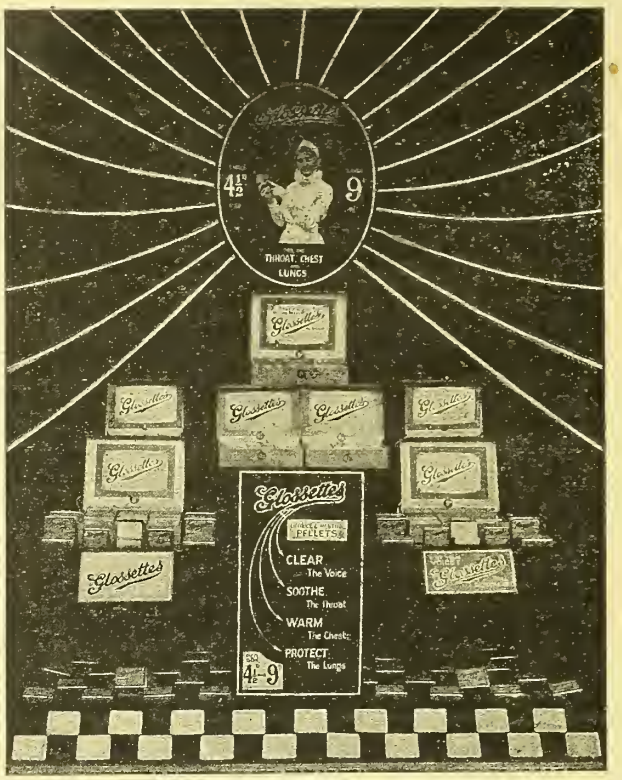
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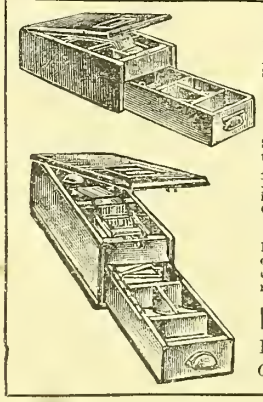
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The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

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Men will smoke

but many would be glad to find a decent substitute that would avoid the ill effects of Tobacco.

Recommend Willis's

Anti-bacca Herbal Smoking Mixture

4 oz., 1/-. 8 oz., 1/9. 1 lb., 3/-.

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THE ANTI-BACCA HERBAL CO.

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Supplies from Messrs. Butler & Crispe.

GARDINER'S PROTECTIVE OVERALLS FOR CHEMISTS & DRUGGISTS

KHAKI DRILL OVERALL COATS 7/11, 10/6, 14/6, 16/6
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Postage on Coats 9d. each.

POST ORDERS promptly and carefully executed. Carriage paid on orders over 20/-. Samples and special quotations for quantities sent on request.

STOCK SIZES 34 to 44 chest. Measure chest over waistcoat.



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(THE SCOTCH HOUSE), LIMITED,
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Established 1830.

Write for Illustrated Booklet and Pattern of New Acid-Proof Clothing.

"YOU CANNOT HAVE IT BOTH WAYS"!
Romantic Statements to the contrary notwithstanding.

A1 QUALITY *CANNOT BE PRODUCED AT* **C3 PRICE**

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CLINICAL THERMOMETER

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Also Manufacturers of Chemical and Industrial Thermometers, Hydrometers for Accumulator Batteries and for all gravities.

Sole Address: **Powell's Thermometer Company, 55 Hatton Garden, London, E.C.1**

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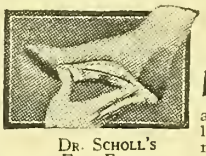
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affords comfort and relief to tired, aching feet, weak ankles, flat foot, &c. Worn comfortably and unobserved in ordinary footwear. Light and resilient to the foot. Price per pair, **10/6.**



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are constructed on strictly anatomical lines from only specially selected materials, and are endorsed throughout the world by the medical profession. "Scholl" goods are nationally advertised. Display them in your window and get your share of the demand we create.

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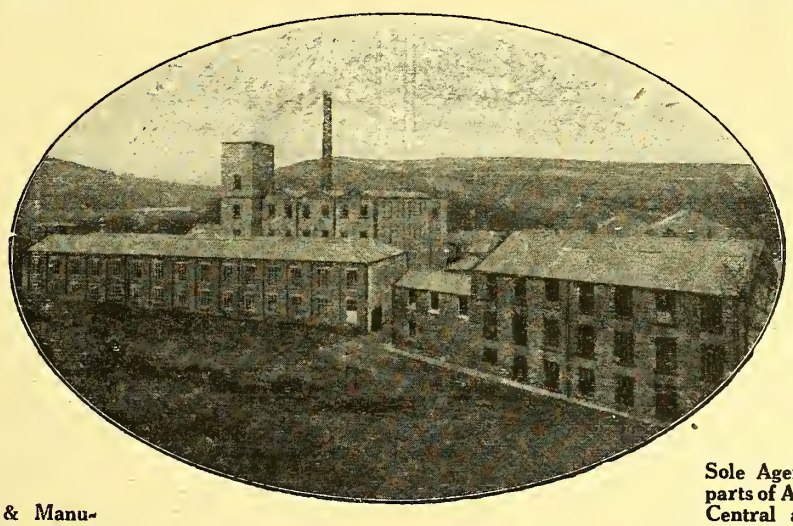
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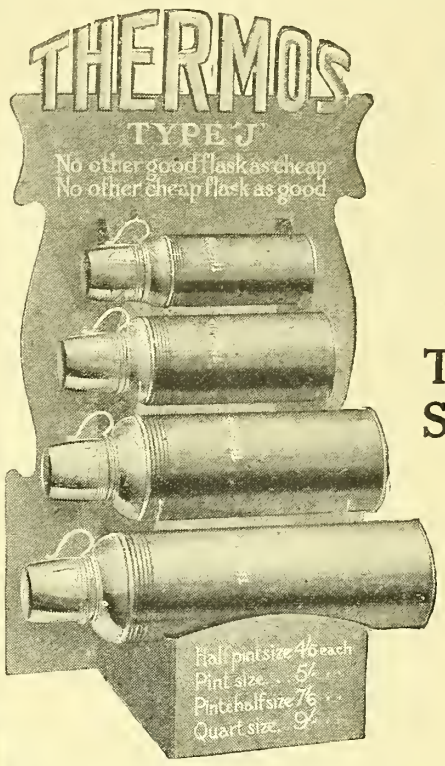
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TO MAKE BIGGER SALES

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Telephone : Regent 2578. *Wires : "Cythermoso, Piccy, London."*



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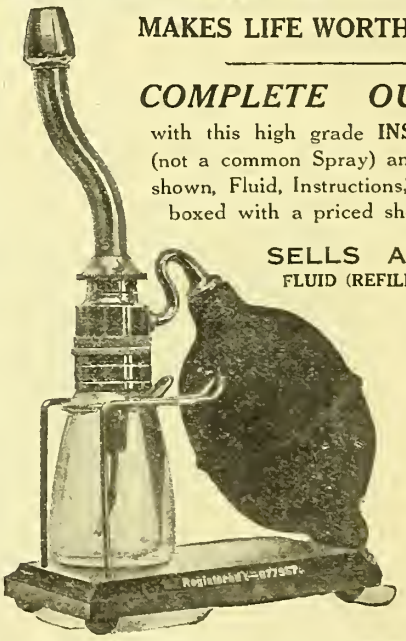
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NORVIC *Regd.*
CRÊPE BINDERS

ZEALS ASTHMA FLUID

MAKES LIFE WORTH LIVING.



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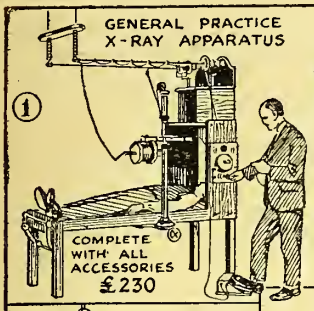
with this high grade **INSTRUMENT** (not a common Spray) and Stand as shown, Fluid, Instructions, &c., neatly boxed with a priced show ticket.

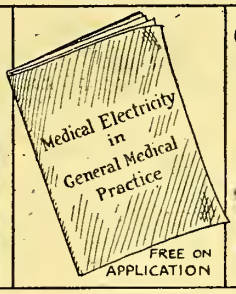
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Thousands in use in all parts of the World.

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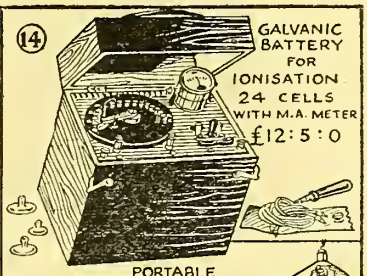
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① 
COMPLETE WITH ALL ACCESSORIES £230

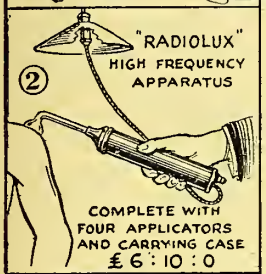


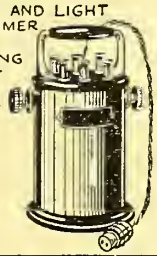
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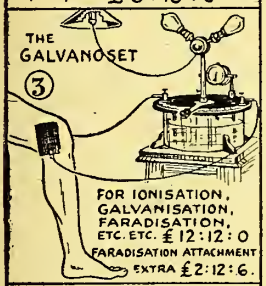
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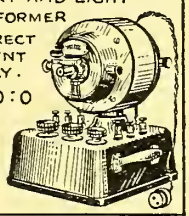

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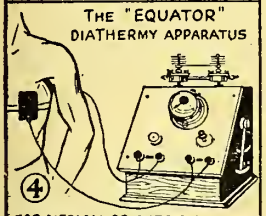
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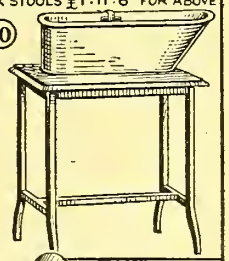
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② 
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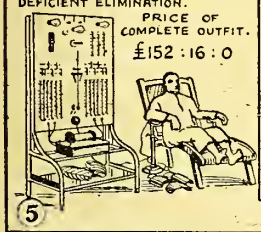
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③ 
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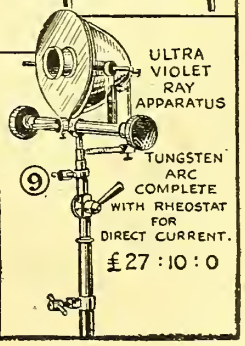
Electro Medical Apparatus

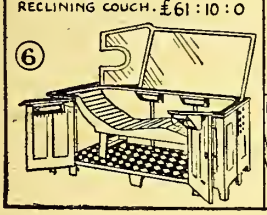
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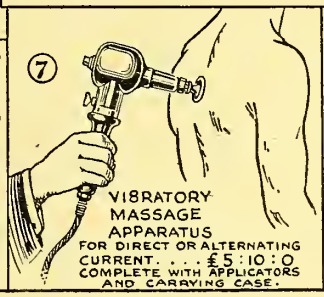
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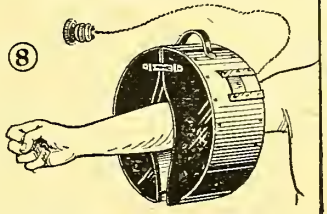
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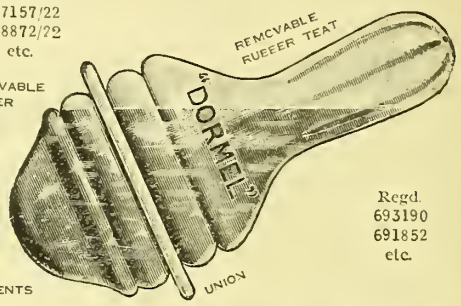
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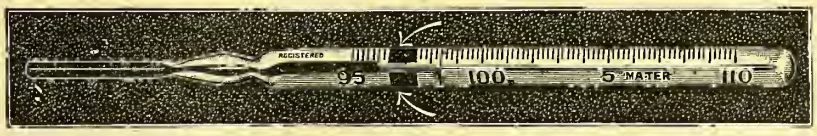
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON E.C.4

OCTOBER 20, 1923

This Supplement is inserted in every copy of The Chemist & Druggist.

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CLOSING FOR PRESS.

ALL ADVERTISEMENTS INTENDED FOR INSERTION IN THIS SUPPLEMENT

MUST REACH US NOT LATER THAN **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation

1.—LONDON, S.W. (Good-class Suburb).—Cash Retail Business, situate in busy main road, offering scope for increased trading; present rate of returns, about £70 weekly; double-fronted shop, mahogany fittings; to effect a speedy transfer, Vendor will accept £2,000 cash, and the balance by instalments.

2.—HOLLOWAY (Near).—Neglected Business; General Retail and N.H.I. Dispensing; returns, £2,500; net profit, £700; house sublet to show profit rental; held on long lease; price £1,600.

3.—LONDON, N.W.—Cash Retail Business; double-fronted shop, corner position; returns, about £40 weekly; vendor values stock and fixtures at £1,400; moderate rental; new lease will be granted; price £1,600.

4.—LONDON, W. (Main Road).—Cash Retail Business, returns, about £3,000 per annum; net profit, between £750 and £800; lock-up shop; held on lease at a rental of £55 per ann.; valuation terms entertained; part payment to suitable successor.

5.—HORNSEY.—Retail Business, with N.H.I. Dispensing; returns, upwards of £20 weekly, at good prices; well-fitted double-fronted shop, fully stocked; rent £52 yearly; price £700.

6.—FINSBURY PARK (N.).—Cash Retail and Dispensing Business; returns, about £1,500 per annum; net profit, £330; single-fronted shop, well fitted and stocked; held on lease at moderate rental; no near opposition; price to be arranged.

7.—EPPING FOREST (Near).—For disposal, owing to serious illness of proprietor, Cash Retail Business; returns now only about £12 weekly, with scope for large increase; double-fronted shop, well fitted in mahogany; held on lease; to effect an immediate transfer, no reasonable offer will be refused.

8.—SOUTH COAST (Near).—Neglected Business, capable of large extension; present hands 41 years; returns, present rate, £1,300 per annum; net profit, about £450; double-fronted shop; comfortable living accommodation; vendor would prefer to sell property with business, but possibly would grant a lease; ill-health cause of sale.

9.—WILTS.—Good-class Retail and Dispensing Business, with excellent sale for own proprietaries; returns, approximately £3,000; net profit exceeds £1,000; double-fronted shop, fitted in mahogany and well stocked; house is sublet to show profit; rental, £20 per annum; held on lease; no opposition; price £2,250.

10.—WEST OF ENGLAND.—General Retail and Dispensing Business; established 60 years; returns, about £1,500 per annum, increasing, at good prices; scope for augmented trading with additional capital; lock-up shop; held on lease; terms, lease and goodwill, £150; stock and fixtures at valuation.

11.—NORTH WALES.—Mixed Country Retail Business; established many years; returns approach £1,100 per annum, at full prices; double-fronted shop, with living accommodation; low rent; held on lease; price £750.

12.—SOUTH COAST.—Good-class Retail and Dispensing Business; present hands 30 years; returns for the past 3 years average £1,765; present rate less; average net profit, £788 per annum; single-fronted shop, well fitted in mahogany; fully stocked; good living accommodation; new lease; price £1,750.

13.—YORKS.—General Retail Business, with very little Dispensing; returns last year, £1,500; gross profit, 35 per cent. to 40 per cent; double-fronted lock-up shop, with basement; held on lease; price £925.

14.—ABOUT FIFTEEN MILES FROM LONDON.—Old-established Business for sale, through the retirement of vendor; returns, about £2,500, at full prices; no N.H.I.; modern shop, new oak front; comfortable living accommodation; further details on application.

VALUATIONS FOR STOCKTAKING

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone PROFIT, THE VALUE OF BUSINESS, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make SPECIAL TERMS for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

BERDOE & FISH

WILLIAM S. FISH.

Valuers and Transfer Agents,

41 Argyle Square, KING'S CROSS, W.C.1.

(One minute from St. Pancras and King's Cross Stations.)

1.—WEST OF ENGLAND.—Light Suburban Retail, with Kodak Agency; returns, £1,700; gross profits, £700; modern corner premises; 6 rooms, shop, Dispensing, etc.; price £1,200; half can remain; worth attention.

2.—SOUTHEND-ON-SEA.—Good-class Light General Retail, returning about £1,400; main road position; scope for increase; modern Pharmacy, with convenient house; fully stocked; price £850.

3.—NORFOLK.—Unopposed Village Business; returns, £1,000; low expenses; good house, large garden; nearest opposition 5 miles; serious illness cause of sale; price £700 for quick sale.

4.—SOUTH COAST.—Light Cash Retail, in busy main road; present returns, £20 to £25 a week; good profits; low rent; long lease; well stocked; price £900.

5.—LONDON, N.—Busy Light Retail, entirely under manager; returns, about £2,500; excellent profits; scope for increase; long, valuable lease; low rent; price £1,600.

6.—RICHMOND (Near).— Good-class Suburban Retail, practically unopposed; present returns, £1,400 under female; can be quickly doubled; fine corner shop; heavily stocked; price £1,200.

7.—LONDON, E.—Profitable Cash Retail, with Kodak Agency; returns, £2,000; plenty of scope in qualified hands; large, well-fitted shop; main road position; low rent; long lease; price £1,100.

BUSINESSES WANTED,

We are particularly in want of good Businesses in the following districts: Southern Counties, S. or W. Midlands, and Liverpool or Manchester; clients waiting with £3,000 to £4,000 capital; correspondence cordially invited

STOCKTAKING VALUATIONS,

We are now booking dates for October and November at special reduced terms and invite early applications. Our Mr. Fish may be consulted daily on all questions relative to sale, purchase and valuation.

ESTABLISHED 1870.

Telephone: 651 Museum.

The Association of Mnfg. Chemists

— LIMITED —

Head Offices—**26-28 Kimberley House,**

Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool)

PARKIN S. BOOTH, Accountant and Valuer.

PHONE: CITY 6942-43.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—BOURNEMOUTH.—Sound Retail Cash Business; established 63 years, in present hands 30; centrally situated; returns £1,765 per annum; premises, which are held on lease, 14 years at rental of £200, consist of well-fitted shop and dwelling accommodation, exceptionally convenient and commodious, good garden, back entrance; full investigation invited; reason for disposal, owner retiring; price for quick sale £1,750.

2.—LONDON, N.—Good Retail Business, taking £1,500 per annum; well-stocked and fitted; little opposition; two good living rooms; seven years' lease, with rent, £52 per annum; inclusive price, £950.

3.—LIVERPOOL.—Good Retail Cash Business, established 40 years; average turnover £1,600 per annum; N.H.I., Kodak and Rexall Agency; tenancy quarterly; rent £40 16s.; house partly sub-let at £26; low price for quick sale; fullest particulars on application.

4.—RECENTLY established Retail Cash Business; busy shopping centre; returns £1,250; Kodak Agency, N.H.I.; good scope; lease 11 years at £85; let off £78; premises consist of shop, cellar, dining room, kitchen and two bedrooms, yard and back entrance; possession of dwelling accommodation on completion; price, £850.

STOCKTAKING.—Now is the time to take your stock. Perhaps it is too much trouble or you have not the time to spare. Then why not consult the Practical Firm who will do this work for you for a small inclusive fee, without interference with your work? For full particulars write as above.

BRETT & CO.

All valuations have the personal attention of F. J. Brett, M.P.S.

TRANSFER AGENTS AND VALUERS,

73 LAUREL ROAD, LEICESTER.

Telephone: **1934.**

DEVON.—Returns £1,100; good middle- and working-class district; fine opening for Photo.; good house; electric light; price £750.

LONDON, N.—Returns £1,100; general light working-class district; Kodak Agency; good opening for Dental and Optics.

NOTTS.—Returns well over £1,800; in growing district; easily worked; good opening for Photo.; no N.H.I.; Vendor retiring from the trade; price £1,350.

SOUTH.—High-class Retail, with valuable connection over the counter and by post of own proprietary articles; very profitable; Vendor retiring; price £1,750.

BUSINESSES WANTED.

SOUTH, cash £1,500 to £2,000; MIDLANDS, cash £1,500; another, cash £3,000; YORKS., cash up to £3,000.

CHARLES C. MARSDEN

Valuer, Transfer Agent and Stocktaker.

44 SHOLEBROKE VIEW, LEEDS.

Stocktaking Valuations at special reduced terms.

SCARBORO. Complete Fittings & Utensils of a chemist's shop for sale. Price £120 to clear.

Recommended and approved by Messrs. Goodall, Backhouse & Co., Hirst, Brooke & Hirst Ltd, and Raimes & Co.

SALE BY AUCTION.

To Manufacturing Chemists, Experimental Engineers, Builders, and Others.

WATFORD, HERTS.

Close to the site of the Metropolitan and Great Central Railway Company's terminus, about three-quarters of a mile from the centre of the town of Watford, and on the main road to Rickmansworth.

Notice of Sale of the Substantially Built and Extensive FREEHOLD LABORATORY BUILDINGS, standing on an excellent site, having 200 feet frontage to the Rickmansworth Road, with the additional advantage of an entrance from King George's Avenue, the total area being over an acre; also the very Valuable FREEHOLD BUILDING SITE, nearly 5 acres in extent, possessing frontages to the Rickmansworth Road of over 400 feet, and return frontage of over 1,000 feet to a new road (which has been sewered). On the western portion are a number of brick and corrugated iron buildings with large boiler, until recently used as a chemical factory, but suitable for conversion for other purposes; or the whole site could be advantageously developed.

WITH POSSESSION ON COMPLETION.

MESSRS. HUMBERT & FLINT are instructed to SELL THE ABOVE BY AUCTION, at the Mart, Queen Victoria Street, London, E.C.4, on Thursday, November 1, 1923, at 2.30 o'clock precisely (unless previously sold privately), in three lots.

Particulars and conditions of sale of the Auctioneers, Watford, Herts, and 11, Serle Street, Lincoln's Inn, W.C.2, or of the Solicitors, Messrs. CHAMBERLAYNE, KEENE & CO., 83, Pall Mall, S.W.1.

PREMISES FOR SALE.

£400 will secure prominent Corner Business Premises (central Portsmouth); large shop with vacant possession; splendid opening for Chemist and a good sound investment; terms arranged if desired. Further particulars, apply Cross & Cross, 34 London Road, North End, Portsmouth, Hants.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LIVERPOOL.—Quick Cash Retail Business with house, part (4 rooms), vacant possession; low rent; easily worked; N.H.I. and Kodak Agency; returns, 1922, £1,600; so far this year to September 30 over £1,100; a good opening for energetic Pharmacist; guaranteed tenancy; price £750, or near offer. "Liverpool," 223/29, Office of this Paper.

LONDON, N.E.—Cash Chemist, main business thoroughfare, with house consisting of four rooms, garden and cellar; 11 years' lease at £85 per annum; house let off at 30s. per week; immediate possession; electric, 'phone; Kodak Agency, National Insurance; takings £28 per week; good profits under management; can take £50; no opposition; lease, fixtures, and goodwill, £600; stock, about £200. Apply 226/14, Office of this Paper.

LONDON, S.W. District.—Old-established Business; Family and good-class Dispensing; in busy shopping centre on main London road; Kodak Agency; returns last two years £2,382 and £2,455; district rapidly growing; 19 years' lease unexpired; option to purchase freehold residence above; exceptional opportunity. 223/26, Office of this Paper.

MARGATE.—Splendid opening for live Chemist.—For Sale, Photographic Dealer's Business, fitted with up-to-date dark-rooms and latest plant for handling D. and P.; large turnover; Kodak Agency; large modern double-fronted shop; half shop would make capital Drug Stores; very spacious showroom, suit fancy goods, on first floor; finest position on S.E. Coast; price £2,500, including valuable stock, plant, fixtures, and agencies; freehold can be purchased if desired. Sims, 34 Marine Terrace, Margate. Immediate possession.

MIDLAND TOWN.—Central position; Mixed Dispensing and Retail; lock-up shop, stock and fixtures valued at about £400; can be bought at reasonable price, and offers good opportunity for one on lookout for business to work up; average returns, about £700; average net profit, £223; nice-class business, with scope for increase. Apply, with stamped and addressed envelope, to 225/39, Office of this Paper.

MIDLANDS.—Light medium and good working-class Retail in pleasant suburb, for sale, because of vendor's health; the Business is easily worked, and capable of increase, as no N.H.I. is done, but well situated for it; profits good; price £1,350. 33/45, Office of this Paper.

NELSON, LANCASHIRE.—Cash Drug Stores, Toilet Requisites, Herbs, etc., offering good opening for qualified Chemist; fitted in mahogany and well stocked; double-fronted; main road; electric light; living accommodation; owner going abroad; price £1,150. 77 Leeds Road, Nelson.

SALOP.—Splendid old-established Chemist's Business for immediate disposal; returns £25 weekly; N.H.I. nearly £20 per month; working-class and residential district; good house attached; easy rent; price £1,050. Also genuine Drug Store near Manchester; vendor must sell at once; offers entertained. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester.

SOUTH WALES.—£500. New Business in growing colliery district, new collieries just being developed; returns, £900; Wine Licence just acquired; N.H.I. and Photographic; double-fronted shop; lease; living accommodation; low rent; unique opportunity for young man. 225/10, Office of this Paper.

WEST RIDING.—Unopposed Pharmacy, busy manufacturing village; recently re-fitted; taking, under unqualified, £1,200 yearly; big scope for qualified man; expenses, including house above (vacant shortly), £20 yearly; profit, about 50 per cent. gross; price about £500; good reasons for sale. 226/39, Office of this Paper.

WEST RIDING VILLAGE.—Easily-worked Pharmacy for disposal; main road; Kodak Agency; nicely stocked; living accommodation; low rental; turnover, £1,300; cash, £625. 226/5, Office of this Paper.

WEST RIDING, YORKSHIRE.—Good Cash Business, with N.H.I. and Prescribing; living accommodation if required; in growing colliery district, population 12,000; returns, 1923, about £1,000, at good profits; well stocked and in good condition; business increasing, could be doubled; sound reasons for disposal; price £650; practically value of stock and fixtures. 225/34, Office of this Paper.

YORKSHIRE, popular seaside resort.—Lock-up Pharmacy; not long established; returns average £27 weekly under unqualified; rent £1 week; first-class fixtures; double-fronted; excellent position; all year round; important thoroughfare; no opposition; endless scope; £400 everything (no goodwill) for quick sale; a bargain; genuine reasons for disposal. 223/25, Office of this Paper.

YORKSHIRE.—Splendid opportunity, great scope, in rising district; House and Shop; house, h. and c. water, shop nicely fitted up; country district, four miles from town; house and shop £700; drugs, etc., at valuation; plenty N.H.I. Dispensing. Apply "Danum," 220/29, Office of this Paper.

BUSY Lancashire Town.—Central position; Chemist and Optician; can be sold together or separately; present takings £1,500; grand proposition for live man with extra capital at disposal; price £1,000, or valuation considered; lack of capital to develop business cause of sale. 225/38, Office of this Paper.

DRUG Store, East Lancashire village, under unqualified Manager, doing, year ending March 31, 1923, £720; no Insurance work or Photographic work; young qualified man would do well under both; rent 8s. 5d. weekly; rates £12 15s.; cost of stock and valuation of fixtures about £300; capable of great extension. 222/25, Office of this Paper.

£180 ALL.—Cheshire.—Smart little Lock-up Pharmacy, situate in dense working-class district, doing £12 to £14 weekly under unqualified management; profits good; no opposition; recently established; big Panel for qualified man; a real good chance for enterprising man; rent 9s. weekly. Apply 227/5, Office of this Paper.

FOR SALE.

CARDBOARD Pill or Ointment Boxes for disposal; 80 gross, size 1 in. dia., $\frac{3}{8}$ in. deep; 2,500, $1\frac{3}{4}$ in. dia., $1\frac{1}{4}$ in. deep. Write "E. O. C.," c/o Pool's Advertising Service, 180 Fleet Street, E.C.4.

PARTNERSHIPS.

PARTNER WANTED, age 30 to 40, to take active management of a progressive business; must be a first-class man, with ability, experience and enthusiasm; man with little capital entertained who would have opportunity of gradually increasing his interest; to begin January 1. State capital, detailed particulars of experience, etc., with references, photo, and height to George Whitfield, 113 Westhorough, Scarborough.

AGENCIES.

LONDON Firm supplying the Wholesale Trade can push one or two additional lines for Manufacturers of Sundries; sole representation wanted. P.C.B. 82/25, Office of this Paper.

MARKING INKS.—Manufacturer's Agent wanted for England, Scotland and Wales to introduce to Chemists, Stationers and Drapers, Wholesale and Retail, the very best Domestic Marking Inks yet placed on the market; supplied to shirt and collar manufacturers for past 20 years; will be advertised in leading ladies' journals having circulation two and a-half millions monthly, also this paper and "Stationer." Apply 221/37, Office of this Paper.

AGENT wanted in London to sell on commission two lines for the Wholesale Trade with very large demand; at the right price to secure orders; only established man need apply. 33/48, Office of this Paper.

BUSINESSES WANTED.

LONDON.—Qualified man with limited capital (about £300) wishes to purchase a small Business or Branch. Full details to 32/41, Office of this Paper.

LONDON, Suburban.—Wanted, sound and reliable Business, Kodak Agency, living accommodation, returning about £1,500 to £2,000 per annum; state price and particulars; cash available; all replies treated with strict confidence and privacy. "Pharmacist," 164 Hamilton Road, West Norwood, London, S.E.27.

SOUTH WALES.—Wanted, Retail Business; good position and scope for increase; would entertain management with a view to early succession. 227/8, Office of this Paper.

ADVERTISER wishes to purchase a Business doing about £2,000 cash, with Photographic and N.H.I.; within a radius of 30-40 miles from Manchester preferable, but not essential; shop on lease preferred, but will buy premises if otherwise suitable; good living accommodation essential; references given if required. 223/28, Office of this Paper.

SITUATIONS OPEN.

[*HOME.*]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRIGHTON.—Lady Dispenser wanted, soon as possible, chiefly for N.H.I. work; no Counter; must be accurate and trustworthy. Apply with full particulars and photo (to be returned), stating salary required and date disengaged, to Edgar Jones, Pharmaceutical Chemist, 95 Preston Drove, Brighton.

CHANNEL ISLANDS.—Wanted, Junior unqualified Assistant; outdoors; please state age, experience, salary expected, and send photo; position is suitable for man just through apprenticeship; excellent opportunity to acquire Continental Dispensing. Apply Mr. de Faye, Pharmacist, St. Helier, Jersey, Channel Isles. (1½d. postage.)

EXETER.—Assistant wanted; good appearance and address; smart Salesman; able to take charge; knowledge of Photography. State age, height, salary required, enclosing photograph, if possible. 224/33, Office of this Paper.

LIVERPOOL.—Junior Assistant, male, unqualified, wanted for Dispensing business in residential district. Please give full particulars of experience, with references, and state salary required (outdoors), to Hawley & Son, 303 Aigburth Road, Liverpool.

LIVERPOOL.—Assistant; part time (two hours Wednesday, three hours Sunday). Full particulars as to experience and salary. 226/37, Office of this Paper.

LONDON, N.—Active qualified Assistant; one able to take sole charge; must be good Window-dresser and Salesman; salary £170 and weekly commission; possible permanency. Write, stating full particulars, King, 58 Cazenove Road, London, N.16.

LONDON, N.W.5.—Wanted immediately, Junior Assistant every evening from 6 to 8 p.m., except Thursdays; Saturdays from 3 to 9 p.m.; remuneration, 25s. per week. 225/6, Office of this Paper.

LONDON, S.W.—Unqualified Assistant, male; smart appearance; West-End experience; competent. Apply Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

LONDON, S.W.—Evening relief, Thursdays and Sundays, two hours; qualified; reliable. Write experience and terms, 226/10, Office of this Paper.

LONDON, S.W.—Wanted, unqualified Assistant for good-class family business; must be of smart appearance and address, and well up in Dispensing. Full particulars of age, height, experience, and salary required to C. R. Toyne, Ltd., 300 Upper Richmond Road, Putney, S.W.

LONDON, W.C.—Manager required for high-class business which calls for capable management, industry, initiative and personality; excellent prospects for man possessing these qualities, coupled with sterling character. 215/53, Office of this Paper.

LONDON, W.—Assistant wanted immediately for Counter and Dispensing; one with West-End experience preferred. Apply, The Manager, Heppells, 26 Piccadilly, London, W.

MALVERN.—Gentlemanly Assistant, with good experience in Dispensing and best-class Retail. Please give full particulars and state salary required (outdoors), enclosing photo if possible, to A. Mander, Belle Vue Pharmacy, Malvern.

MANCHESTER.—Unqualified Assistant as Locum for two weeks, October 29 to November 10, both dates inclusive; good Dispenser and Counterman; state salary required. W. V. Heath, 340 Gt. Clowes Street, Higher Broughton, Manchester.

MANCHESTER.—Capable Manager, qualified, for branch shop; must be good Prescriber and accustomed to quick cash trade; N.H.I. and Photography. Apply by letter, stating age, salary required, and full particulars, Colmans, Ltd., 161 Bury New Road, Manchester.

MIDLANDS.—Pharmacist, to take charge of Dispensing department in Store business; easy hours; no Sunday or night duty; suit Chemist recently qualified. State age, experience and salary required. 226/15, Office of this Paper.

NORTHAMPTON.—Assistant, male, required for Dispensing Counter. State age, height, full experience, when disengaged, and salary required, also qualification, if any, and enclose photograph. Apply P. Jeyes & Co., Ltd., Chemists.

NORTH STAFFORDSHIRE.—Second Assistant wanted for October 29; outdoors; qualified; good-class Retail with N.H.I.; part time local travelling. State age, height, experience and salary required. Applications not replied to in seven days to be considered as declined. Edmund Jones, Chemist, Hanley.

NORTHUMBERLAND.—Wanted, unqualified male Assistant, single, experienced in N.H.I. Dispensing; good Counterman; outdoors; no Sunday duty. Give full particulars of experience, age, height, salary required, with photo. "Country Chemist," 222/35, Office of this Paper.

A JUNIOR Assistant required at once. Full details and copies of testimonials in first instance; North-East Coast city. 33/49, Office of this Paper.

AN experienced, unqualified Assistant; must be good Window-dresser and able to take charge of branch. Also a thoroughly experienced Photographic Salesman and Window-dresser wanted. Apply Friday or Saturday morning only, or by letter, to Brooks, 509 New Cross Road, London, S.E.14.

ASSISTANT, with good experience; unqualified; single; must be an accurate Dispenser and good Salesman; not under 27; easy hours; outdoors. Please give full particulars in first letter. 217/31, Office of this Paper.

ASSISTANT; unqualified; capable, trustworthy, and used to a country business. Apply, stating age, height and salary required, enclosing photo, Bryan, Chemist, Malmesbury, Wilts.

BOOTS, The Chemists, have vacancies for experienced unqualified Assistants. Apply, by letter, to Boots Pure Drug Co., Ltd., Station Street, Nottingham.

JUNIOR Assistant, mainly Dispensing, good-class business; very little N.H.I.; South of London. Apply, giving experience and testimonials (gentlemen only). 223/22, Office of this Paper.

JUNIOR Assistant, unqualified, wanted at once for a good-class Dispensing business. Please give full particulars as to age, height, experience and salary required; photo if possible. Benjamin, Chemist, 57 Cold Bath Road, Harrogate.

MANAGER, age about 30-35, required for General Retail, N.H.I. and Photographic business near Liverpool; must be energetic and competent; undeniable references required. State full particulars of experience, height and salary required. Applicants not answered within seven days respectfully declined. 225/16, Office of this Paper.

QUALIFIED male Assistant, with experience, for Counter and Dispensing in good-class Liverpool business; age 25-30 preferred; wages £4 10s. to commence. 225/36, Office of this Paper.

THOMPSON & CAPPER, LTD., require a young lady Assistant at their Leeds branch for the Perfume and Toilet Department. Apply, enclosing photograph and stating salary required, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

WANTED, immediately, qualified Assistant, chiefly for Dispensing, in good-class business. Apply with full particulars to A. Lloyd Davies, Chemist, Woking.

WANTED immediately, qualified Assistant; N.H.I. Dispensing; ample time free; Midlands; £2 10s. to £3 per week; would suit any man who requires light work; send references. Apply, 225/13, Office of this Paper.

WANTED, for a large London Pharmacy, a qualified Assistant with the Optical qualification. Applicants please state full particulars of age, experience and salary required. 225/7, Office of this Paper.

WANTED, young lady Assistant; qualification not essential, but must be competent Dispenser and have good Retail Counter experience. State age, height, experience, salary, photo; Essex; permanency. "L.," 226/29, Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

WEST OF ENGLAND. — Capable, smart Representative required; previous Retail experience essential. 32/40, Office of this Paper.

N old-established manufacturing firm in the North are open to engage a thoroughly experienced man in the manufac- of Confectionery and other Essences; must be a man of iative and original ideas and accustomed to the control of f. If experienced also in Custard Powders and such like ld be an advantage. The position is a permanent one and uneration commensurate with ability. Full particulars as to erience and training to 33/50, Office of this Paper.

APABLE Wet and Dry Counter Hand for Midlands; permanency for suitable man; good references essential. State , experience and salary required. 221/36, Office of this per.

EPRESENTATIVES required for old-established Perfumery and Soap Manufacturers on commission basis; only first-ss men with connection amongst Chemists and Stores need ly. Write, stating ground covered, 32/43, Office of this Paper.

ALESMEN (commission) required with good connections amongst Wholesale and Retail Chemists to sell a high-class tented Proprietary; extensive advertising campaign. State und covered and present lines to Box 3054, c/o F. E. Potter, d., Imperial House, Kingsway, W.C.2.

ALESMEN for Proprietary article required, calling upon Chemists; commission and bonus; big money earning position. Apply Sales Manager, L. Milano, Ltd., Regent use, Fitzroy Square, W.1.

HE Proprietor of a small but progressive (established 20 years) Private Limited Company manufacturing on enlarged oratory scale Fine Medico-Dental Products, with increased rly sales, desires to meet expert Analytical Chemist and prac-al Pharmacist capable of personally undertaking the granu-ion and preparation throughout of Hyperdermic Tablets; a owledge of Dental Creams, Powders, Washes and Tablets, etc., d other marketable specialities an advantage; permanent, pro-ssive position offered intellectual, energetic worker; an invest-nt could be arranged; moderate commencing salary, increas- *pro rata* with sales. State fullest particulars, qualifications, perience, capabilities, age, and salary required to Harrisons, d., 1 Bayley Lane, Coventry.

VANTED, for Manufacturing, Wholesale and Packed Goods, thoroughly competent, experienced Chemist, either sex, nager or Foreman, expert in Pills, Powders, Ointments, ugh Syrups, Effervescences, Embrocation, Browning, Oils, etc.; rmanency if suitable. State experience, salary, etc. 216/1, ice of this Paper.

VANTED, by London Wholesale Druggists, a good practical man with Major qualification to assist in control of boratory; must be under 40, energetic, and capable of manag- a staff; must also have had previous Wholesale experience. pply, by letter only, "Lab," c/o W. Charity & Sons, 37 Union eet, Borough, S.E.1.

VANTED, Representatives on commission to carry Medicinal Tablets and Packed Goods in the following districts:— eshire, Staffordshire, Derbyshire, Nottinghamshire, Lincoln-ire, Leicestershire, Warwickshire, Rutland, Shropshire, Here-rd, Worcestershire, Oxford, Gloucestershire, Berkshire, and rth Wales; liberal commission. Apply 32/44, Office of this per.

VANTED, a qualified Chemist to travel in Medical Labels and Chemists' Printing generally in the West of England d Wales. Apply 33/51, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

A GRANDE PHARMACIE DE PARIS, 49 Rue Thiers, Boulogne-sur-mer, require capable qualified Assistant for rmanency; liberal salary and travelling expenses. Please apply the Manager.

Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

SITUATIONS WANTED.

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2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

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A.A.—AS Assistant or Manager; qualified; 26; tall; single; abstainer; first-class experience, Dispensing, Window-dressing, Photography; now disengaged. Willcocks, 60 Gladstone Avenue, Manor Park, E.12.

A.A.—LOCUM; disengaged; highest references; well recommended; very reasonable terms. Brown, 74 West Hill, E. Putney, London, S.W.15.

A FIRST-CLASS Assistant, with excellent all-round experience, open for Locum, part, or permanency; capable of management; terms moderate; unqualified.—"E.," 131 Mount View Road, N.4.

A GENTLEMAN, middle-age, seeks post as Dispenser-Bookkeeper with Doctor; experienced; excellent testimonials; Hospital experience; please state salary. Reply 223/34, Office of this Paper.

A GOOD Dispenser, Counterman, Photographer; 24; disengaged; excellent references; unqualified. Whitaker, Durbin's Drug Stores, Kingston-on-Thames.

A PHARMACIST; abstainer; experienced Manager; 8 years private limited company, good-class country business; thorough knowledge Wine and Spirit business; Photographic and a little Optical; good Salesman and Window-dresser; first-class references; married. 225/26, Office of this Paper.

A PHARMACIST (28), experienced, desires evening work; Liverpool; moderate terms. "Pharmacist," 71 Egerton Road, Wavertree, Liverpool.

AN Assistant, unqualified, 23, disengaged, single, West-End Dispensing and seaside experiences, requires situation in West-End. "Pharmacy," 226/26, Office of this Paper.

AN opportunity occurs for securing a really capable Manager, qualified Chemist and Dentist, with exceptionally good experience in every department, including Optical; age 45; excellent references. Apply 226/25, Office of this Paper.

AS Assistant; unqualified; middle-aged; good appearance; wide experience (West-End, Brighton, Eastbourne, Southsea, etc.); good knowledge Photography; Brighton district. "E. U.," 34 Talbot Terrace, Lewes.

AS Manager, 30; qualified; good references; experienced Window-dresser, Dispensing, Photography, etc.; Lancashire or Yorkshire preferred. 226/22, Office of this Paper.

AS qualified Manager; varied experience; Dispensing, Photographic, private and Store; London, seaside, provinces; good references; disengaged. Furnival, 28 Melrose Avenue, Cricklewood.

ASSISTANT, unqualified, 16 years' good experience, excellent references, seeks berth, London district; disengaged. "B.," 24 Mead Plat, Willesden.

ASSISTANT Manager; experience every class business; also Photography, Agricultural, Shipping, etc.; recommended. "Chemicus," 112 Lloyd Street, Greenheys, Manchester, S.

ASSISTANT, junior; young lady; recent Hall; private, N.H.I., Dispensing; knowledge Counter; moderate salary. Hordle, 41 Augustine Street, Taunton.

ASSISTANT (referred Poison Law); 10 years' experience Connter, Dispensing and Photography. Warwick, 93 Henley Road, Reading.

ASSISTANT, Manager or Senior; 33; married; 5 ft. 11 in.; unqualified; disengaged; fully experienced in all branches of the trade; workable knowledge of Optics; accustomed to taking charge of business and staff; capable Salesman, possessing tact. If you require reliable service as above, please communicate "Sinapis," 8 Kingsley Road, Bedford.

ASSISTANT; 30; high-class Dispensing and Counter; West-End and South Coast experience. "Aspirin," 37 The Avenue, Eastbourne.

ASSISTANT; unqualified; middle-age; permanent or locum; experienced; disengaged. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

ASSISTANT; unqualified; 26; single; honest; abstainer; 5 years' Counter experience; no Dispensing; willing to do anything; Wholesale or Retail; shortly disengaged. 226/38, Office of this Paper.

ASSISTANT, 28, married, referred subject, desires permanency good middle-class business; excellent references; good experience all branches, Dispensing; knowledge Photography; Derby or Derbyshire preferred, not essential. Write 225/50, Office of this Paper.

BRANCH Manager, Managing Assistant; thorough business experience; good Window-dresser; expert Photography; London or country; unregistered; excellent references. "E. J.," 17 Adie Road, London, W.6.

CAPABLE, experienced Manager requires post; town or country; free at short notice; age 29. C/o J. Milner, Pharmacist, Greenwich.

CHEMIST, with 20 years' excellent Retail experience in all branches, wishes to meet Pharmacist who requires a thoroughly good, reliable Manager, with view to gradual succession; first-class references given. "Chemist," 32 Wellington Square, Hastings.

DEVON.—Qualified lady desires position in high-class Pharmacy or Institution in Torquay, Newton Abbot or district; experience chief aim. "M. M.," 226/27, Office of this Paper.

DISENGAGED.—Competent, unqualified Assistant, 38; single; well up in all branches; could successfully manage Drug Store; up-to-date methods; Photography and Optics; held similar position; moderate salary. Brown, 201 Grove Road, Victoria Park, E.3.

DISENGAGED; qualified; as Manager in London only, or Locum anywhere. "Chemist," 44 Devonshire Road, Chiswick, W.4.

DISENGAGED.—Qualified man, age 25, of good address, desires post as First Assistant; excellent references; suburban and high-class West-End experience. "Abstainer," 132 Haydons Park Road, Wimbledon.

DISPENSERSHIP or Cover required; qualified; 50; single. "Chemist," 23 Wellclose Mount, Blackman Lane, Leeds.

EVENINGS; 30; Dispensing and Counter; any evening after 6 o'clock; Saturday half-day. "W.," 78 Alexandra Road, Croydon.

EXPERIENCED, unqualified, reliable Dispenser, Salesman; evening work, all Friday and Saturday. "Disengaged," 82 Campden Street, Kensington, W.8.

GENTLEMANLY Assistant, 21, tall, desires change, high-class Pharmacy; thoroughly experienced all branches, Dispensing, Counter, Photographic, and tasteful Window-dressing; resident Blackheath. 226/400, Office of this Paper.

IMPROVER; disengaged; will take low salary for good experience. "Theo," 222/31, Office of this Paper.

IMPROVER seeks experience where he could add to his knowledge of the trade by hard work; age 22; Preliminary. 33/47, Office of this Paper.

JUNIOR Assistant; unqualified; 26; hard worker, with thorough knowledge of London N.H.I. Dispensing; excellent references; free Monday next; salary £2 10s. "C. E. F.," 6a Collingbourne Road, Shepherd's Bush.

JUNIOR, 20; tall; four years' good all-round experience, including three years' apprenticeship in London, where post is desired; end of November. Purvis, Thornbury, near Bristol.

JUNIOR; three years' experience in light Retail and Photo trade; good references; age 19. Fidling—Smith, Chemist, Newark.

LADY, age 20, four years' Dispensing and Counter experience, requires post as Junior, within travelling distance of home. E. Walton, 42 Westbourne Avenue, Gateshead.

LADY Dispenser (Hall) desires post, either with Doctor or Institution. Apply to Thomas, 7 Flodden Road, Camberwell, London.

LADY Dispenser (Hall) requires post with Doctor or Institution, anywhere; good experience; book-keeping; testimonials. "D. E. F.," Tettenhall, Norwich Avenue, Bournemouth.

LADY Dispenser (Hall) seeks post; Locum experience with Chemist and London Hospital. "L.," 15 Morland Avenue, Croydon, Surrey.

LADY Supervisor; disengaged; thorough knowledge all kinds Packed Goods; reliable; capable control; good references. "K.," 2 Roxley Road, Lewisham.

LADY Assistant seeks post with Chemist, Doctor or Institution; high-class Dispensing experience. 227/9, Office of this Paper.

LADY Dispenser (Hall) requires post, Doctor or Chemist; good experience (N.H.I., Book-keeping, Typewriting, etc.). M. C. Ashford, Gillingham, Beccles.

LOCUM or permanency; qualified; abstainer; wide experience; capable and trustworthy. A. J. Paynter, 7 Hampstead Road, Bristol.

LOCUM or Manager; qualified; abstainer; 50; excellent experience; good references; disengaged. Dawson, Central Hotel, Long Lane, E.C.

MANAGER or Assistant; qualified; best experience; London or country; disengaged. P.C.B. 89/22, Office of this Paper.

MANAGER, qualified, 28, tall, Photography, experienced Counterman and Dispenser, highest references, seeks position offering scope and permanency; abstainer. 223/39, Office of this Paper.

MANAGING Assistant; unqualified; age 28; energetic accurate Dispenser, Window-dresser, quick Counter Salesman; used to Photography; excellent references; Birmingham and Leicester district. "Statim," 84 Evington Road, Leicester.

MANAGER or Assistant, 30; qualified; tall; highly experienced; Window-dressing, Photography; well recommended temporary or permanency. 'Phone: Hampstead 6795. "Chemicus," 21 Church Road, Hanwell.

MANAGERSHIP with view to early succession; qualified; age 37. A. B. Ogle, 5 Cormon Road, Myatts Fields, S.E.5.

MANCHESTER or District.—Lady Assistant; part time evenings, with Chemist or Doctor; 3½ years' first-class shop and Dispensing experience. J. Bayley, 173 High Street, C.-on-M., Manchester.

MANCHESTER preferred; brother (25) and sister (22) qualified; trained all duties. Address "Pharmacy," 1 Birch Grove, Rusholme.

MINOR Student wants evening and Saturday post; S.E. London preferred; Dispenser. 226/17, Office of this Paper.

MR. S. A. SHEARD, the Rexall Chemist, Morley, recommends young Chemist of sterling integrity who is requiring experience; nominal salary in order to gain experience. Apply "J. P.," as above.

PART-TIME; free evenings and week-ends; good, all-round capable man; excellent references; S.E. or S.W. London. "Chemist," 295 New Cross Road, S.E.14.

PART-TIME.—Qualified gentleman; young; experienced, reliable; two evenings per week; any capacity. Lawley, 3 Grafton Square, Clapham.

PHARMACIST, 38, married, requires position as Manager; Photography, Dispensing, N.H.I., good-class, Salesmanship; references; highly satisfactory; disengaged; moderate salary. 227/11, Office of this Paper.

POSITION required by Junior, 20; excellent Dispensing, Counter and Photographic experience; good references. Edwards, 11 Barttelot Road, Horsham.

POST as Manager or Cover wanted; good experience in all branches of business; can invest capital; seaside or near preferred, but not essential; now at liberty. Apply, 223/5, Office of this Paper.

UALIFIED Manager or Assistant; age 38; 20 years' experience; good Dispenser and Counter hand; married (no ly); disengaged. "Statim," 6 Russell Gardens, Kensington, 4.

UALIFIED, 29, requires berth in London; excellent references; now disengaged. Hughes, Fountain Hall, Llandyssul, s.

UALIFIED; 14 years' experience; excellent references; not afraid of work. Apply Maxwell Zamick, 7 Exchange Street, dee.

UALIFIED; elderly; Hospital or Institution; 11 years' Hospital experience. "Chelsea," 22 Bramerton Street, sea, S.W.3.

UALIFIED; 22; disengaged shortly; good all-round experience, including Photography. "Chemicus," 32 Leopold d, St. Andrew's Park, Bristol.

UALIFIED, 22; all-ronnd experience, including Photography. Hodge, c/o S. Carter, Chemist, Penzance.

UALIFIED Chemist wants post; London only; part-time preferred; Hospital work; Panel or Cover; moderate salary; recommended; speaks French. "Dispenser," 1 Abbeville d, London, S.W.4.

UALIFIED lady (Minor) desires post; excellent Dispensing and Counter experience; London essential. "Chemist," 7 ege Crescent, Hampstead.

UALIFIED; Manager; elderly; energetic; highest testimonials; disengaged. "Agar," 22 Ellison Road, Barnes, .

UALIFIED, 25, seeks post, Dispensing or Counter; South Coast season experience; disengaged; references. Morgan, Lascelles Terrace, Eastbourne.

UALIFIED, 22, as Junior Assistant in good business; highly recommended; preferably London or Liverpool. Bowskill, nton Lacy, Ludlow.

UALIFIED, 27, requires situation in high-class Pharmacy; well recommended; S.E. Counties preferred. S. J. Gower, High Street, Tonbridge.

UALIFIED man; age 23; single; disengaged; all-round experience. S. W. Boulding, 159 Mortimer Street, Herne Bay.

UALIFIED; trustworthy; experienced all branches; permanency or Locum; excellent references; moderate salary; engaged. "Chemist," 4 Ormond Terrace, Cheltenham.

UALIFIED; Manager or Senior; London or Middlesex; abstainer; 12 years' experience (last five West-End); excellent references; conscientious and energetic. "Egomet," olanthe," Masson Avenue, Northolt Junction, Middlesex.

UALIFIED, 28; tall; Dispensing, Counter and Photographic experience; disengaged; Midlands preferred. Bate, 14 bright Avenue, London Road, Worcester.

UALIFIED, 25, tall, experienced Pharmacist, desires engagement. Jones, Cartref, Tymaen, Cwmavon, Glam.

UALIFIED; disengaged; experienced; Manager or Cover. "Chemist," 34 Wadeson Street, Cambridge Heath, E.2.

UALIFIED, 32, desires a change; London preferred; all-round experience in country business; some knowledge of ench. 224/36, Office of this Paper.

UALIFIED lady, young and energetic, desires position in high-class Pharmacy; Worcester, Kidderminster, Birmingm or district preferred; keen Saleswoman and accurate Disuser; knowledge of Photographic, Toilet and Rexall goods. 5/15, Office of this Paper.

TUDENT, passed Part I Minor in Botany and Physics, speaks French fluently, knowledge of Photography, requires a berth a good Dispensing business while attending evening classes. 3/4, Office of this Paper.

EMPORARY post wanted by lady Dispenser; Hall; experienced; Doctor or Chemist (no counter). 222/33, Office of is Paper.

UNQUALIFIED, young, seeks position; accustomed to good-class Dispensing business; reliable Dispenser. "Medical," 4 Buckley Road, Brondesbury, N.W.6.

UNQUALIFIED (34), tall, married, 16 years' excellent good-class experience, desires permanency (provincial if living accommodation available) or locum (London only); disengaged. "Statim," 226/2, Office of this Paper.

WANTED, Apprenticeship in Preston or Blackpool district with qualified Chemist for girl (18); London Matriculation. 222/29, Office of this Paper.

WANTED, in or near Bristol, by a middle-aged, qualified man, post in any capacity; active; moderate salary. "Chemicus," 176 Gloucester Road, Bristol.

WELL-educated young lady requires post as Dispenser to Doctor or Hospital; Hall qualification. Marchant, Prideaux House, Eastbourne.

YOUNG lady, knowledge Dispensing, Photography, book-keeping, seeks to gain more experience Counter work; small remuneration; country preferred. 227/6, Office of this Paper.

£2 WEEKLY.—Young man, 28, with Analytical, Manufacturing, Advertising and Dispensing experience, desires post; having small income, salary is immaterial; excellent references; any proposition, including small Partnership considered; guarantee arranged if necessary. John Leake, 23 Avenue Road Extension, Leicester.

WHOLESALE.

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A.A.—YOUNG Chemist, 10 years' experience Chemistry, comprising Analytical, Manufacturing and Retail Pharmacy, some experience calling on shopkeepers, desires post as Traveller, anywhere, at home or abroad; a willing and efficient worker. 42 Old Road, Blackley, Manchester.

A.I.C., 43, married; educated Public School; good knowledge French; one year Assistant to Analytical Chemist, 8 years' Manufacturing Chemist. M.L. 5977/22, Office of this Paper.

ANALYTICAL or Research Chemist; Works or Private Practice; 27; B.Sc. Lond.; first-class honours Chemistry; some knowledge French; 3 years' Articled Pupil, Laboratory Analytical and Consulting Chemist; experience in manufacture of Pharmaceutical Preparations; has also some experience as Public Analyst, Foods, Drugs, Water Supply, Sewage, Medical Analysis, etc. M.L. 49250, Office of this Paper.

B.SC. HONOURS (CHEMISTRY), A.R.C.S. (Chemistry), A.I.C.; some knowledge French; 24; 12 months' experience manufacture and application of Industrial and Laboratory Filter Papers; open to take any suitable post. M.L. 70954, Office of this Paper.

CHEMIST (Research or Works); 23; B.Sc.(Lond.), A.I.C.; some experience as Pupil Assistant, Public Analyst and as Analyst with fine Chemical Manufacturers. M.L. 25833, Office of this Paper.

DISENGAGED, after 15 years' provincial hard spade work amongst Doctors.—Dentist seeks position similar or among Chemists; Eastern, Midlands, Northern Counties; trained to Drug trade. Apply, "Glyco," 226/32, Office of this Paper.

EX-OFFICER, 44, single, M.Sc. (Hons.), B.Sc. (1900), desires Chemical, Metallurgical or Commercial post; experience as Chief Chemist and Manager of Chemical Manufacturing Company, also as Chief Chemist and Metallurgist in Metal Company; sound experience all branches; is willing to take any post suitable to qualifications. M.L. 71755, Office of this Paper.

EXPERIENCED Salesman, resident in Manchester, is open to represent Sundry House in the Lancashire area; own car; age 39; 20 years' experience of the trade. Apply, 226/8, Office of this Paper.

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IRELAND.—Irishman, 29, seeks immediate engagement as Representative, good English house, for Packed Goods, Ointments and Sundries, etc.; good connection all Ireland; 13 years' experience of trade, indoor and outdoor; highest references; salary and expenses. 221/15, Office of this Paper.

LADY (young) desires post as Shorthand-Typist; qualified Dispenser; four years' Retail experience. Smith, 18 Marriott Road, Barnet.

PHARMACEUTICAL Chemist, Square trained, seeks position in Laboratory or other good work. Miss D. Randle, 25 Mecklenburgh Square, W.C.1.

PHARMACIST, young, energetic, good education, thorough knowledge of Drug Trade, good Salesman, desires to represent a house of repute where hard work and ability will be appreciated; ground known as yet, Wales and West of England; excellent references. Apply, "Velox," 225/4, Office of this Paper.

PHARMACIST, 32, abstainer, good appearance, hard worker, desires appointment with good Wholesale House; ground known, London (part), South Wales, Birmingham and 10-mile radius, Lancs, Yorks, Northumberland and Durham. Full particulars to "M.P.S.," 20 Huddleston Road, London, N.7.

TECHNICAL and Research Chemist, 33; married; has held post as Chief Assistant to leading Consulting Chemist five years; extensive experience; specialises in Acids, Oils, Sugar, Metallurgy; good organiser. M.L. 1469/23, Office of this Paper.

WORKS or Analytical Chemist, B.Sc.(Lond.); 25; fair knowledge French; could act as Demonstrator or Lecturer; good experience with Public Analysts and Consulting Chemists. M.L. 20675, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

M.P.S., YOUNG, energetic, adaptable, 9 years' all-round experience, Retail, Dispensing, Salesmanship, Window-dressing, Photographic Specialist, knowledge of Optics, at present managing, desires progressive situation abroad. Apply 198/12, Office of this Paper.

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PHARMACY Fittings, Drug Fittings, Dispensing Screens, Wall Cases, Counters, Silent Salesmen, Showcases; bargain prices. Write inquiries. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.1.

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LIMITED COMPANY FORMATION.—Before placing your Company in other hands, get my quotation. I specialise in Chemist and tradesmen private companies and quote inclusive charge; no extras. A. B. Slack, 180 Garston Old Road, Liverpool.

WOMEN PHARMACISTS.
THE National Association of Women Pharmacists can supply immediately experienced Pharmacists for Hospital or Retail; town or country. Write or wire, Andrews, 285 Harrow Road, W.9.

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PHARMACEUTICAL Books wanted; send priced list. G Bookseller, 41 Voltaire Road, Clapham.

GARDNER "RAPID" SIFTER AND MIXER. Send ticulars, size and price to 32/39, Office of this Paper.

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SHOP ROUNDS, labelled or unlabelled, Ointment Pots, boys required immediately. Send particulars to 33/46, of this Paper.

"PHARMACEUTICAL FORMULAS," Vol. II, conta "known, admitted and approved" remedies. "S. B.," 1 Office of this Paper.

Price lists, trade circulars, samples, and printed matte can in no case be forwarded, the Box numbers bein intended exclusively for specific answers to particula advertisements. The Publisher reserves the right to ope and refuse to forward any communications received whic he may consider contrary to this rule.

Printed for the Proprietors by The Avenue Press (L. Upcott Gill & Son, Ltd.), 55 to 57, Drury Lane, W.C.2, and Publis by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42, Cannon Street, in the City of London.—Oct. 20, 1923. [90]

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